

track of Bill and
am very much
concerned about him.

I am wondering
whether you could
tell me how I
might reach him?
If so, would you
be kind enough to
give me his address?

Sincerely yours,
Mrs. Carl Scheffer
Sanders

UNITED STATES
DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
OFFICIAL BUSINESS

Date Received 5/8/51
From Irvin M. Kines, Secy. to Director
(Name of contributor)

LEPL, NACA, Cleveland
(Address of contributor)

By O'DONOGHUE
(Name of Special Agent)

To Be Returned Yes ()
No (X)

Description: Record of Copy & SA of
Lexington report and ccs of correspondence
in this copy
File No. 65-2730-1A (62)

65-2730-1A 62

Washington, D. C.
November 4, 1948

From NACA

To Lewis - Attention Dr. R. F. Selden

Subject: Lexington Project Report

Reference: NACA letter October 11, 1943

1. There is transmitted herewith Copy No. 88 A of Lexington Project Report Lex P-1. Copy No. 87 A of this report was previously transmitted with reference letter.

2. This report contains restricted data within the meaning of the Atomic Energy Act of 1946 and is for the use of only those persons having AEC clearance.

Addison M. Rothrock
Assistant Director of
Aeronautical Research

Enclosure

RFL:bh

45-2730-Sub A-1062

C
O
P
Y

Cleveland, Ohio,
Feb. 1, 1948

From Lewis
To NACA Headquarters Attention: Mr. A. M. Rothrock

Subject: Return of Copy No. 88, Series A, of "Nuclear-Powered
Flight" a report to the Atomic Energy Commission by
the Lexington Project, dated September 22, 1947.

Reference: NACA letter, November 4, 1947, REL: n

1. The enclosed copy No. 88, Series A, of the Lexington Project report was transmitted to this laboratory with reference letter. Upon inspection of this copy, we find that figures VII-1 through VII-42 have been omitted. Inasmuch as these figures have an important bearing upon the over-all conclusions reached in this report, it is requested that an attempt be made to procure the missing figures and have them incorporated in Copy No. 88 or substitute another copy of the subject report for use at this laboratory.

Edward R. Sharp,
Director.

RFS:imk
Encs.

2.5/8/51
W. J. ...
2.5

~~SECRET~~
Washington, D. C.
March 23, 1949

From NACA

To Lewis - Attention Dr. R. F. Selden

Subject: Transmittal of Copy No. 88, Series A, of
~~Lexington Project Report~~ "Nuclear-Powered
Flight"

Reference: Lewis letter February 1, 1949, RFS:imk, Encs,
Secret

1. As requested by Dr. Selden there is enclosed herewith copy No. 88, Series A, of the subject report which was returned to Headquarters with reference letter because of missing figures. The report is still incomplete in that figures VII-1 through VII-42 have not been supplied.

Addison M. Rothrock
Assistant Director of
Aeronautical Research

Enclosure

REL
bh

~~SECRET~~

Recd. 5/1/49
W. H. S. 1/2

~~SECRET~~

which separated in
enclosure, handle
this document as
classified

~~RESTRICTED DATA~~

This document contains restricted data
defined in the Atomic Energy Act of 1946.

Washington, D. C.
April 5, 1949

From NACA

To Lewis - Attention Dr. R. M. Selden

Subject: Transmittal of Copy No. 74B of Lex P-1 Report

1. There is transmitted herewith copy No. 74B of Report Lex P-1 which is to replace copy No. 88A delivered to Dr. Selden by hand on March 23, 1949.

2. The laboratory is requested to return copy No. 88A to Headquarters.

Addison M. Rothrock
Assistant Director of
Aeronautical Research

Enclosure
Lex P-1, copy 74B

REL
bh

~~SECRET~~

~~RESTRICTED DATA~~

*Recd. 5/8/51
Kerr
22*

unclassified

Y

Cleveland, Ohio,
April 7, 1949

From Lewis

To NACA Headquarters

Attention: Mr. Addison M. Rothrock

Subject: Return of copy number 88, Series A of Lex P-1 report.

References: (a) NACA letter, April 5, 1949, REL bh (secret)
(b) NACA letter, March 23, 1949, REL bh (secret)
(c) Lewis letter, February 1, 1949, RFS:imk (Secret)
(d) NACA letter, November 4, 1948, REL bh (Secret)

1. The subject copy is being returned as requested in reference (a). It will be noted that this imperfect copy contains two portions of Chapter 7 but lacks the various figures which pertain to this chapter.

2. This imperfect copy was transmitted originally with reference (c) with a request for a good replacement copy. This replacement copy has been received in the form of NACA 74B of report Lex p-1 transmitted with reference (a).

Edward R. Sharp,
Director.

RFS:mes

Encs*

Copy No. 88, Series A
report Lex P-1

*Rec'd. 5/18/51
H. J. K. K. K.
- 100 -*

Record of Copy No. 88 A of LEX P-1

Received at Lewis Laboratory November 4, 1948 from
NACA Headquarters.

Routed to Abe Silverstein November 29, 1948, returned to
Dr. Selden's files December 10, 1948.

Routed to B. Pinkel January 3, 1949.

Returned to NACA Headq. February 1, 1949.

Received at Lewis Laboratory March 23, 1949 from
NACA Headquarters.

Retained by Dr. Selden until returned to NACA Head-
quarters April 7, 1949.

imk 5-8-51

Reid 5/8/51
W. A. McKelvey

Date Received 12-31-50

From Bureau
(Name of contributor)

(Address of contributor)

By _____
(Name of Special Agent)

To Be Returned Yes ()
No ()

Description:

Photostatic copy of 55
File No. 65-2730-1A

memo re: visit
Vulter 1-1-44 by
NAEA Rep.

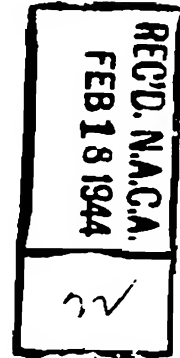
serial - 391

65-2730-1A55

To be signed and returned to the National Advisory Committee
for Aeronautics, 1500 New Hampshire Avenue, N. W., Wash-
ington, D. C.

February 8, 1944

From: National Advisory Committee for Aeronautics.
To: AERL



Subject: Receipt for documents.

Reference:

Receipt is hereby acknowledged of the following documents:

1 copy of Hartman's memorandum for Coordinator of
Research, 2-1-44: "Visit to the Vultee Field
Division of the Consolidated Vultee Aircraft
Corporation on January 31, 1944."

seg

Date received 2 - 12 - 44

Name

Rank

Carlton Kemper / he
Executive Engineer

A.I. 3c

~~SECRET~~

EB 5 100

Santa Monica, California
February 1, 1944

MEMORANDUM For Coordinator of Research

Subject: Visit to the Vultee Field Division of the
Consolidated Vultee Aircraft Corporation
on January 31, 1944.

1. CONTACTS: During this visit to the Vultee Field Division, I had an opportunity to speak with Mr. Price, engineering manager; Mr. Frank Davis, chief of aerodynamics and flight; Messrs. Ralph Shick, Harold Pope, and others of the aerodynamics department; Messrs. Paul Anderson and Edward Dunholter, of the power plants group; Mr. Frank Albright, project engineer on Vultee's new Army project; and Prof. Victor Martin, of the University of Washington, who is rendering consulting service in connection with the new project.

2. XP-81: Mr. Price authorized clearance for me to Vultee's new secret Army project, variously designated as the XP-81, MX-480, and Vultee project 102. This project is the development of a long-range high-altitude fighter suitable for use as a bomber convoy. The airplane will have a gross weight of about 20,000 pounds and is of fairly conventional design except for its propulsive system.

3. The propulsive system consists of two power plants. One power plant, located in the nose of the fuselage, is a 2000- (ground) to 3000-horsepower General Electric TC-100 unit driving a 12-foot four-blade Aero-products propeller. Approximately 80 percent of the power of this unit goes into the propeller, and the remaining power is produced by the jet action of the combustion products as they are ejected through a duct on the bottom of the fuselage. The air intake for this unit is through the nose of the fuselage.

4. The second power plant is located behind the pilot's cockpit and well back in the fuselage. It is a 4000-pound-thrust General Electric I-40 jet unit which exhausts through a circular opening in the rear end of the fuselage. The location of the air-intake

scoop for this unit is to be either at the bottom of the fuselage or at the top of the fuselage behind the pilot's enclosure; the decision in this matter is of immediate concern to Vultee engineers.

5. In discussing this problem, Vultee engineers pointed out that the Army is afraid that an intake scoop located underneath the fuselage will pick up stones and other foreign objects thrown by the wheels during take-off; on the other hand, if the intake scoop is located on the top of the fuselage behind the pilot's enclosure, Vultee engineers fear that compressibility separation on the pilot's enclosure may seriously disturb the air flow into the duct. The enclosure will, of course, be designed to have the highest possible critical speed.

6. The fuselage of the XP-81 is long and slim and is mounted well forward on the wing. The fuselage is, indeed, mounted so far forward on the wing that Vultee engineers are somewhat concerned about the effect of the short tail length (2.5 M.A.C.) and of the long nose on the stability of the airplane. A conventional-appearing tail with a single vertical surface is mounted on the rear end of the fuselage, and the landing gear is of the tricycle type.

7. Fuel (kerosene) is carried in tanks inside the fuselage over the wing and, on long-range missions, in a streamlined tank mounted under each wing. For short bombing missions, the disposable gas tanks can be replaced with two 2000-pound bombs.

8. The wing has an aspect ratio of 6, a taper ratio of $3\frac{1}{2}$:1, and is swept forward so that the leading edge is nearly straight. The wing loading is about 39 pounds per square foot. The wing has NACA 63-series sections and is 13 percent thick throughout the span. For structural reasons, Vultee will remove the cusp from the trailing edge.

9. In discussing the matter of sweep, Vultee engineers said they had chosen to use a sweptforward wing on the XP-81 in an attempt to avoid tip stall. They had made this choice, Mr. Shick said, with the full realization that the lateral stability of a sweptforward wing, especially with flaps down, was poor and that the dihedral effect might even be negative.

This condition had been encountered on a number of airplanes, including some of their own, Mr. Chick stated, but pilots had considered it not at all serious. Inasmuch as the wing of the XP-81 has such a high taper ratio, Vultee engineers thought they should give most weight to the factors that improve the stall.

10. Performance estimates indicate that the airplane will have a range of 2500 miles; a speed which, neglecting compressibility shock, would be about 630 miles per hour; a rate of climb at sea level of better than 6000 feet per minute; and a ceiling of something more than 30,000 feet. The XP-81 is expected to be able to cruise at 250 miles per hour to an objective 1250 miles away, fight 20 minutes at full power, and return at 300 miles per hour. During the outward and the return trips, the TG-100 unit alone will be used. Inasmuch as the airplane is expected to convoy bombers at high altitude, it will, I believe, have a pressure cabin.

11. Great emphasis is being placed on speed of construction for the airplane is scheduled to fly in September. Since the project is a rush job, the wind-tunnel test programs are laid out on a very tight schedule and will need to be facilitated in every way possible to be successfully completed in time to contribute to the design. The wind-tunnel test program that Vultee has laid out specifies tests in four different tunnels which are listed in chronological order as follows:

- (1) Duot and scoop tests with a 1/4-scale fuselage model in the Vultee tunnel. This series of tests is about to start.
- (2) Tests of a 1/6.5-scale complete model in the Caltech tunnel.
- (3) Scoop, duot, and jet tests of a 1/4-scale, powered (?), fuselage-stub wing model in the AAL 7- by 10-foot tunnel.
- (4) Tests of a 1/4-scale powered complete model in the AAL 16-foot tunnel.

12. The program of tests was said to have been discussed with the AAL staff during a recent visit Vultee engineers made to the laboratory. Arrangements were made at that time, Mr. Shick said, for AAL to furnish a 150-horsepower motor for the tests. Vultee engineers are now concerned with the procurement of a four-blade 3-foot-diameter propeller for the tests. Inasmuch as they lack the time and facilities for constructing the propeller, they would like to borrow the blades from any agency that may have some available. They expect, of course, that it will be necessary for them to build the hub and are prepared to do so.

13. Vultee has inquired, without success, of the local aircraft companies concerning the availability of blades for a 3-foot propeller. Douglas informed them that a Douglas model (A-26?) which was tested in the LMAL 19-foot tunnel had 3-foot-diameter propellers but that the model was still at LMAL and was now the property of the Army. Mr. Shick said that the company had addressed a request to the NACA for the loan of a 3-foot-diameter propeller but had been informed that none was available. He said that the request, through business office handling, had been very untactfully worded. If the Committee can furnish three or more blades for an approximately 3-foot-diameter propeller or can inform the Vultee company where such blades are obtainable on loan, the Vultee engineering staff will be very appreciative.

14. XA-41: In the experimental shop I inspected the Vultee XA-41 airplane, which was approaching completion and which will fly in a very few days. The XA-41 airplane is the only one to be built under a contract which was canceled a few months ago.

15. The airplane was being instrumented for flight tests, but the instrumentation did not include the Vultee Radio Recorder as that device appears still to be in an experimental stage of development. The Radio Recorder project, as well as Mr. Giffen and others who are in charge of it, was reported to have been transferred to the San Diego Division. At the San Diego plant, the Radio Recorder will be installed in an airplane for extensive tests to determine its operating characteristics.

16. The IA-41 airplane, which has been described in previous memorandums, has a gross weight of around 18,000 pounds and is of fairly conventional appearance except for a very stubby, low-aspect-ratio (about 1.5) vertical tail surface. The surface seems even shorter because of the deep dorsal fin which extends forward several feet and finally, at its forward end, fairs into the shield of a directional antenna located behind the pilot's canopy. Despite the apparent inadequacy of the vertical surface, wind-tunnel tests were reported to have indicated that the value of $dC_n/d\beta$ was equal to 0.0017, which Vultee engineers consider satisfactory.

17. The airplane has a slotted flap and sealed, internally balanced ailerons with a geared booster tab. The elevator has a blunt leading-edge balance with a curtain-sealed gap. It has a spring booster tab on one side and a trim tab on the other. The rudder has a blunt-nose balance with a curtain-sealed gap and a spring tab.

18. Provisions have been made for the installation of heavy armament consisting of four 37-mm cannon and several .50-caliber machine guns. The fuselage has a large bomb bay which can be used alternately for bombs or the partial enclosure of a torpedo.

19. The airplane is powered with a Wasp Major 4360-9 engine which has a 2:1 gear ratio, develops rated power at 2700 rpm, and turns a 13-foot four-blade Hamilton Standard 6507A-0 propeller. The engine that is now in the airplane is the second one that Vultee has received from the Pratt & Whitney company. The first one suffered a failure while being tested on Vultee's new engine static test stand. Although the damage to the engine was known to include a broken connecting rod, Vultee engineers never did determine the full extent of the damage nor the cause of the trouble as the engine was returned to the Pratt & Whitney company without being torn down for inspection.

20. After the failure occurred, Vultee engineers were afraid that they would not be permitted to have another engine for installation in the airplane, but their fears were unfounded. They are taking no chances with the second engine, however, and have installed it immediately in the airplane. The first Wasp Major engine was reported by Vultee engineers to have run very smoothly during their static tests; in fact, these engines run so smoothly, Mr. Anderson said, that Pratt &

Whitney had installed one, in a test airplane, without Lord shock mounts.

21. The engines are received from the Pratt & Whitney company equipped with shielded total-head tubes and thermocouples attached to the heads and bases of the cylinders. Pratt & Whitney was said to have installed this instrumentation for the purpose of getting consistent results from tests of the engines mounted in different airplanes.

22. The engine cowling is of conventional design though it involves the use of a spinner and an inner cowling or spinner fairing for increased inlet efficiency. The cowling has an external carburetor-air scoop on top extending well forward toward the lip of the cowling and a large external air scoop on the forward bottom part of the cowling leading to two oil radiators below the engine. The Siamezed exhaust stacks are long and exit through a number of tunnels underneath the cowl flaps.

23. The fuel system of the XA-41 airplane has been tested in the Thompson Products laboratory at Inglewood, where some difficulties from aeration and vapor lock were noticed. Although, in these tests, it was found desirable to have two booster pumps in the fuel tank, Vultee has found it convenient to install but one and, when the fuel level in the tank gets low, this one does not function very satisfactorily. This difficulty cannot be alleviated by installing the pump in a sump because there is no room for a tank sump in the airplane. The fuel system thus is considered not entirely satisfactory but, inasmuch as only one airplane is to be built, Vultee believed the expenditure of more time on it to be undesirable.

24. XP-54: The second and last XP-54 is being assembled and will be completed in a month or two. Vultee has apparently turned over the first XP-54 to the Army. The previously reported oil-foaming problem on the XP-54 was not entirely solved as it appeared to be, partly at least, the fault of the engine. The engine apparently had insufficient scavenging-pump capacity, and the drainage passages for the oil in the crankcase and other parts of the engine also were apparently too small. The Lycoming company was reported to be studying the oil-scavenging problem on the engine in its laboratory.

25. HANDLING QUALITIES: Mr. Davis has recently had an opportunity to fly a number of airplanes, including the F4F, the F4U, and the F6F, in close succession and thus to compare their handling characteristics. Although it is slower than the others, he found the F6F to have the best handling qualities. Perhaps somewhat biased, he said that even the F6F did not have as good handling qualities as the P-56, the Vultee Vanguard.

Edwin P. Hartman.

EPR:jkh

20, Mutterperl, Wm

Cleveland, Ohio,
November 9, 1944.

MEMORANDUM For Manager.

Subject: Overdrawn leave.

1. I have taken a total of 28 days leave this year. My leave is therefore 8 days in excess of the maximum time granted.

2. The overdrawal of leave was made necessary by my marriage and the ensuing difficulty of locating a suitable place to live.

3. It is requested that the excess leave be granted as annual leave.

William Mutterperl
William Mutterperl,
Aeronautical Engineer.

WM:hmg
AS

Approved:

Abraham

Abraham
For the Manager

RETURN TO AERL
PERSONNEL FILES

Cleveland, Ohio,
December 10, 1943.

MEMORANDUM For Personnel Officer.

Subject: Recommendation for promotion of Mr. William Perl, Chief,
Theoretical Analysis Panel, Wind Tunnel and Flight Division.

1. It is recommended that Mr. William Perl be promoted from Aeronautical Research Scientist VI to Aeronautical Research Scientist VII. Mr. Perl has been with the NACA for almost 10 years except for a period of approximately 18 months in which he was taking graduate work at California Institute of Technology and Columbia University. He has now completed his course work and thesis for his Doctor's degree.

2. Mr. Perl's work has been outstanding during the entire period of his employment. His knowledge and skill in the fields of theoretical and applied aerodynamics rank him among the leaders, and several of his papers may prove to be classics in their fields. During his stay at Columbia University, Mr. Perl served as assistant to Dr. von Karman, who has the highest respect for Mr. Perl's scientific ability.

3. Mr. Perl is in charge of the Theoretical Analysis Panel of the Wind Tunnel and Flight Division which is engaged at present in the fundamental studies of three major fields: supersonic flow, transonic flow, and boundary layers. In addition to supervising studies on these subjects, Mr. Perl is personally engaged in preparing for publication a new theory on transonic flows, which is believed to be a substantial contribution to the subject.

4. Because of Mr. Perl's outstanding researches in the field of theoretical and applied aerodynamics and because of the invaluable and irreplaceable nature of his contributions, it is recommended that he be promoted to the position of Aeronautical Research Scientist VII. Mr. Perl is entitled to a P-7 grade according to the present classification.

Abe Silverstein
Abe Silverstein, Chief,
Wind Tunnel and Flight Division.

AS:aw

Classification Recommendation: December 30, 1943

A allocated to class titled, Supersonics Theoretical Scientist, Description 402, Grade P-8, which is pending NACA Headquarters approval.

N.B. Recommended grade changed from P-7 to P-8 after comparison with LAL class titled Aerodynamic Creative Scientist VII, P-8, description L-2122. See memo from Lewis to Headquarters dated 11/30/43. /S/ED
Toussaint.

WOL:ms

Rydin/13

Approved by [Signature] President for [Signature] Employment in [Signature]
December 11, 1943

Box 88 Payson, Pa.
Columbia University
New York 27, N.Y.
Apr. 23, 1948

85940

210-101

Dear Mr. Lounsbury,

I wish to inform you that I plan to return to the
Cleveland Laboratory on or about June 1, 1948.

May I take this opportunity of also of expressing my
appreciation for the promotion recently granted me?

Please inform me of any necessary formalities
pursuant to my return to active duty.

Cordially yours,
William R. Ral

DIRECTOR
EXEC OFF
EXEC ENG
EXEC OFF
PERS OFF
BUDG
ENR
C&T
EP&M
F&T
WT&P
CHSER
C&CA
DES
B&G
ENG SER
F&S
INST
MECH SER
ADM SER
Library
FISCAL
PERS
PROC

PREP REPLY
PROPACT

Leave - call me on this
JOT

I

WRITE LETTER FILE REPLY
SIGNATURE TO CORRESPONDENCE
WHAT TO DO

JOT

ACTION COPY

Cleveland, Ohio
November 30, 1949

From: Lewis
To: NACA Headquarters

Subject: Request for authorization for the detaching of Lawrence
J. Stein and William Earl to the Oak Ridge National
Laboratory.

1. As a result of Dr. von Kinkade's visit to the Oak Ridge
National Laboratory on November 22, 1949, it is considered desirable
that Lawrence J. Stein and William Earl be detailed to this organi-
zation for a period of approximately one year to undertake certain
research investigations for the NACA.

2. Approval is requested for arranging directly with Dr.
Silverstein of Oak Ridge for the detaching of these employees and for
authorizing the necessary travel. It is recommended that per-
diem be allowed during periods of actual travel and for a period
of 30 days after arrival of the above employees during which time
they will have an opportunity to secure suitable living accom-
modations.

7
Abraham Silverstein,
Chief of Research.

JLW:ms

PERSONAL HISTORY STATEMENT

(To be prepared by appointee in new handwriting)

Department or Establishment N.A.A.C.P. Date April 2, 1937

1. Name in full (Mr., Miss, or Mrs.) Mutterperl William
(Last name) (Given name) (Middle name)

2. Present address 100 E. 10th St. Brooklyn N.Y.
(Street) (City) (State)

3. Legal (voting) residence New York New York New York
(State and "D.C." or "Terr.") (County) (City or town)

4. When born New York New York Oct. 1, 1918
(State, "D.C." or "Terr.") (County) (Month Day Year)

5. If foreign-born, state whether naturalized or alien

6. Indicate sex, marital condition, and race by check, thus: ☒ If Mrs., state other names under which previously employed.

SEX		MARITAL CONDITION				RACE (If other, state below)	
Male	Female	Single	Married	Divorced	Widowed	With	Colored
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7. Number and ages of dependents domiciled with you None

8. A complete record of your past service for the United States Government other than military or naval:

BRANCH OF SERVICE	PLACE OF EMPLOYMENT	POSITION	SALARY	DATE APPOINTED			DATE SEPARATED		
				Month	Day	Year	Month	Day	Year

9. Are any members of your family, who are domiciled with you, in the U. S. Government service? If so, state below:

NAME	POSITION AND DEPARTMENT OR OFFICE IN WHICH EMPLOYED	RELATIONSHIP
	Position Department or office	
	Position Department or office	
	Position Department or office	
	Position Department or office	

10. Do you now hold any State or municipal office? If so, state below:

(Title) (Address) (Date appointed or elected)

11. Are you the wife of a disabled veteran or widow or orphan of a person who was in the military or naval service?

(Name, rank, or position) (Rank of veteran) (Dates of service)

12. Military and naval record. If any, check (✓) to indicate branch and other information, and give dates of enlistment and discharge:

None ☒ Army ☐ Navy ☐ Marine Corps ☐ Coast Guard ☐ Warship ☐ Post office ☐ Voluntary Air Force

Enlisted ☐ Discharged ☐ Enlisted ☐ Discharged ☐

Rank ☐ Rank ☐ Rank ☐ Rank ☐

Organization ☐ Organization ☐ Organization ☐ Organization ☐

(Date) (Date)

(State as usual) system and which could be used as an indication of

OATH OF OFFICE

Prescribed by Section 1757, Revised Statutes of the United States

National Advisory Committee for Aeronautics Langley Memorial Aeronautical Laboratory
(Department or Establishment) (Bureau or Office)

I, William Mutterperl, do
(Name in full, printed or typed)
solemnly swear (or affirm) that I will support and defend the Constitution of the
United States against all enemies, foreign and domestic; that I will bear true faith and
allegiance to the same; that I take this obligation freely, without any mental reserva-
tion or purpose of evasion; and that I will well and faithfully discharge the duties of
the office on which I am about to enter. SO HELP ME GOD.

William Mutterperl
(Signature of Appointee)

Subscribed and sworn to before me this 8th day of April, A. D. 19 39

At Langley Field, Virginia
(City or place) (State)

[SEAL]

Isabel Taylor
Notary Public

My commission expires February 12, 1943.

NOTE.—If the oath is taken before a Notary Public the date of expiration of his commission should be shown.

Position to which appointed Junior Electrical Engineer

Date of entrance on duty April 5, 1939

PERSONNEL INFORMATION SHEET

Read Instruction Sheet, Form 3465, before filling out this form. All current information on
Form 3464 should be reported as of June 15, 1940

JUL 17 1940

(Print or type)

(Date)

1. Name: Mutter, Earl William
(Last) (First) (Middle)Mailing address: 197 Edmore Ave. Boston Virginia
(Number and street) (City) (State)Place of employment: National Advisory Committee for Aeronautics
Langley Memorial Aeronautical Laboratory
(Division) (Section) (City) (State)
Langley Field, Virginia

2. Present salary:

Indicate basis

\$ 2200 per☒ Year. ☐ Day.
☐ Month. ☐ Hour.
☐ Week. ☐ Other.

3. Date of birth:

October 1 1918
(Month) (Day) (Year)

If "Other," specify

4. Give a statement of your education or training in the blanks below. (See also Question 23.)

(a) Elementary school (circle number of years completed): 1 2 3 4 5 6 7 8

Name and location of school	When attended (Month and year)		Indicate Year completed (Write "Grad" if you graduated)	Title of degree received	Semester hours credit received
	From—	To—			
(b) Junior high school: <u>PROSPECT H.S. Bronx, N.Y.</u>	<u>Feb. 1929</u>	<u>Feb. 1931</u>	<u>grad.</u>		
(c) Trade school:					
(d) High school: <u>De Witt Clinton Bronx, N.Y.</u>	<u>Feb. 1931</u>	<u>Feb. 1934</u>	<u>grad.</u>		
(e) Other school:					
(f) College or university: <u>College of City of N.Y.</u> <u>137 St. & Convent Ave. N.Y.</u>	<u>Feb. 1934</u>	<u>June 1938</u>	<u>grad.</u>	<u>B.E.E.</u>	<u>145</u>
(g) Graduate school: <u>College of City of N.Y.</u> <u>137 St. & Convent Ave. N.Y.</u>	<u>July 1938</u>	<u>Jan. 1939</u>	<u>grad.</u>	<u>M.E.E.</u>	<u>32</u>

5. College major and minor subjects:

List in the blanks below your major and minor subjects, giving the number of semester hours in each field. Indicate graduate and undergraduate work separately.

	Field of work	Semester hours	(Do not use)
Majors	<u>Electrical Engineering (undergrad.)</u>	<u>80</u>	<u>None</u>
	<u>" " (grad.)</u>	<u>20</u>	
Minors	<u>none</u>		<u>None</u>

6. What foreign languages do you speak fluently, or read readily?

None

Speak

Read

7. If you are licensed or registered, check proper square:

- 1 ☐ Licensed to practice law.
2a ☐ Licensed to practice medicine.
2b ☐ Licensed to practice dentistry.
2c ☐ Licensed to practice veterinary science.
3 ☐ Registered pharmacist.
4 ☐ Registered or graduate nurse.
5a ☐ Licensed as architect.
5b ☐ Licensed as professional engineer.
6 ☐ Certified public accountant.
7 ☐ Marine license: Kind _____
8 ☐ Licensed as stationary or operating engineer.
9 ☐ Licensed as aeronautical pilot or mechanic.
0 ☐ Other license (specify) _____

8. Place of birth:

Place NY
(State or country only)

If naturalized citizen,

give: Cert. No. _____ Date _____

Court _____

9. Classification of position for salary purposes (check service and grade):

Service	Grade
0 <input type="checkbox"/> Unclassified.	1 <input checked="" type="checkbox"/> 10 <input type="checkbox"/>
1 <input type="checkbox"/> CAF (clerical, administrative and fiscal).	2 <input type="checkbox"/> 11 <input type="checkbox"/>
2 <input type="checkbox"/> CM (clerical-mechanical).	3 <input type="checkbox"/> 12 <input type="checkbox"/>
3 <input type="checkbox"/> CU (custodial).	4 <input type="checkbox"/> 13 <input type="checkbox"/>
4 <input checked="" type="checkbox"/> P (professional).	5 <input type="checkbox"/> 14 <input type="checkbox"/>
5 <input type="checkbox"/> SP (subprofessional).	6 <input type="checkbox"/> 15 <input type="checkbox"/>
6 <input type="checkbox"/> EO (Executive order).	7 <input type="checkbox"/> 16 <input type="checkbox"/>
7 <input type="checkbox"/> FCS (full-time of lateral departmental).	8 <input type="checkbox"/> 17 <input type="checkbox"/>
8 <input type="checkbox"/> Special act.	9 <input type="checkbox"/> 18 <input type="checkbox"/>
Other service (specify) _____	19 <input type="checkbox"/>

10. Status of present position (check one):

- 0 ☐ Classified departmental.
1 ☒ Classified field.
2 ☐ Under labor regulations.
3 ☐ Excepted positions, schedule A.
4 ☐ Excepted positions, schedule B.
5 ☐ Excepted by statute.
6 ☐ Presidential appointment.
7 ☐ Excepted by Executive order.
8 ☐ Outside labor regulations.
9 ☐ Temporary (check if you are a temporary appointee, regardless of the type of position you hold).

11. Individual status with respect to civil service:

Have you ever held, or do you now hold

(a) a probational or permanent civil-service appointment as a result of a civil-service examination (competitive or noncompetitive)? YES
(Yes or No)

(b) an appointment under the civil-service labor regulations? _____
(Yes or No)

If you now hold a probational appointment, indicate date on which your probation will be completed. _____
(Date)

Give length of entire Federal service: 1 3
(Years) (Months)

12. Marital status, dependents:

(Do not fill in)

0 ☒ Single.

1 ☐ Married.

2 ☐ Separated.

3 ☐ Divorced.

4 ☐ Widowed.

Marital status
(Check one)

☒ Dependents (Number completely dependent on you, other than husband or wife). 1

13. Race and sex:

Male	Female
1 <input checked="" type="checkbox"/> White	<input type="checkbox"/> 6
2 <input type="checkbox"/> Negro	<input type="checkbox"/> 7
3 <input type="checkbox"/> Indian	<input type="checkbox"/> 8
4 <input type="checkbox"/> Yellow	<input type="checkbox"/> 9
5 <input type="checkbox"/> Malayan	<input type="checkbox"/> 0

(Check in left column if male, right column if female.)

14. Military preference (check one):

(Do not fill in)

1 ☒ None.

2 ☐ Veteran preference (5-point).

3 ☐ Disability preference (10-point).

4 ☐ Wife of disabled veteran (10-point).

5 ☐ Widow of veteran (10-point).

If a veteran, indicate

branch of service: _____

15. Are you now a member of the National Guard, or a member of the Reserves of the Navy, Army, Marine Corps, Coast Guard, or Public Health Service? No
(Yes or No)

Rank: _____

Service: _____

Branch: _____

16. Legal or voting residence:

N.Y.
(State only)

23
(Congressional district)

17. Experience record (before filling this section be sure to read Item 17 on Instr. Sheet):
 In the following blanks, give a record of all your significant Government or private employment, starting with present position, listing positions you have held in reverse chronological order, on basis of pay for each job, as: Hour, day, week, month, or year. Attach list of any publications or inventions of which you are author or inventor at bottom of page. Omit jobs of less than 3 months' duration. List duties and functions in such form that your special qualifications are clear.

Name: Natl. Adv. Comm. Aero.
 Address: Langley Field,
 City and State: Hampton, Va.
 Kind of establishment or shop: Research Organization

Dates		(Do not use this space)
From—	To—	
<u>Apr. 1939</u>	<u>July 1940</u>	

Name: _____
 Address: _____
 City and State: _____
 Kind of establishment or shop: _____

Dates		(Do not use this space)
From—	To—	

Name: _____
 Address: _____
 City and State: _____
 Kind of establishment or shop: _____

Dates		(Do not use this space)
From—	To—	

Name: _____
 Address: _____
 City and State: _____
 Kind of establishment or shop: _____

Dates		(Do not use this space)
From—	To—	

Title of job: Junior Electrical Engineer
 Your duties and specialty: Maintenance and design of electrical machinery. Aerodynamic research.

Machines or equipment used: Electric motors, control equipment.

Title of job: _____
 Your duties and specialty: _____

Machines or equipment used: _____

Title of job: _____
 Your duties and specialty: _____

Machines or equipment used: _____

Title of job: _____
 Your duties and specialty: _____

Machines or equipment used: _____

(If additional space is necessary, use "Continuation sheet" (C. S. C. Form 3464b) and attach here)

Year given

Junior Patent Examiner 1937

Height 6 2 1/2 Weight 175
(Feet) (Inches) (Pounds)

(Specify) None

- 0 ☐ Marksmanship.
- 1 ☐ Motion pictures and photography.
- 2 ☐ Short-wave radio operation.
- 3 ☐ Aviation.
- 4 ☐ Art work (specify).
- 5 ☐ Organizing and public speaking.
- 6 ☐ Musical arts (specify).
- 7 ☐ Handicraft (specify).
- 8 ☐ Mountaineering and exploring.
- 9 ☐ Other (specify).

24. If you have any preference for types of positions other than that you now hold, indicate in order of preference: If you desire a transfer to some other locality, state where _____

1. _____ acceptable salary \$ _____
2. _____
Indicate lowest acceptable salary \$ _____

<input type="checkbox"/>	<input type="checkbox"/>	Adding machine.	<input type="checkbox"/>	<input type="checkbox"/>	Photostat.
<input type="checkbox"/>	<input type="checkbox"/>	Addressograph.	<input type="checkbox"/>	<input type="checkbox"/>	Shorthand.
<input type="checkbox"/>	<input type="checkbox"/>	Blueprint.	<input type="checkbox"/>	<input type="checkbox"/>	Stenopent.
<input type="checkbox"/>	<input type="checkbox"/>	Bookkeeping machine.	<input type="checkbox"/>	<input type="checkbox"/>	Stenotype.
<input type="checkbox"/>	<input type="checkbox"/>	Calculating machine.	<input type="checkbox"/>	<input type="checkbox"/>	Switchboard telephone.
<input type="checkbox"/>	<input type="checkbox"/>	Computer.	<input type="checkbox"/>	<input type="checkbox"/>	Tabulator.
<input type="checkbox"/>	<input type="checkbox"/>	Dictaphone transcriber.	<input type="checkbox"/>	<input type="checkbox"/>	Teletype.
<input type="checkbox"/>	<input type="checkbox"/>	Graphotype.	<input type="checkbox"/>	<input type="checkbox"/>	Typewriter.
<input type="checkbox"/>	<input type="checkbox"/>	Key-punch or verifier.	<input type="checkbox"/>	<input type="checkbox"/>	Vanity type.
<input type="checkbox"/>	<input type="checkbox"/>	Minicograph.	<input type="checkbox"/>	<input type="checkbox"/>	Telegraph.
<input type="checkbox"/>	<input type="checkbox"/>	Multith.	<input type="checkbox"/>	<input type="checkbox"/>	

Other (5% or less)

23. List below any specialized training or courses you have taken other than those covered in item 5, which have a bearing on your qualifications, and indicate time spent on each.

[illegible]

I CERTIFY that the foregoing answers are correct to the best of my knowledge and belief.

William Mutterper

PERSONNEL AFFIDAVIT

NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS, LANGLEY FIELD AERO LAB, LANGLEY FIELD VA.
(Department or agency) (Branch or division) (Place of employment)

Name WILLIAM MÜLLERPERL

(Given name, initial or initials, if any, and last name) (Print or type)

Section 9A of Public 252—76th Congress, approved August 2, 1939, otherwise known as the "Hatch Act," provides:

"(1) It shall be unlawful for any person employed in any capacity by any agency of the Federal Government, whose compensation, or any part thereof, is paid from funds authorized or appropriated by any Act of Congress, to have membership in any political party or organization which advocates the overthrow of our constitutional form of government in the United States.

"(2) Any person violating the provisions of this section shall be immediately removed from the position or office held by him, and thereafter no part of the funds appropriated by any Act of Congress for such position or office shall be used to pay the compensation of such person."

It is provided in various appropriation acts that no part of the funds so appropriated shall be used to pay the salary or wages of any person who advocates, or who is a member of an organization that advocates, the overthrow of the Government of the United States by force or violence, and that an affidavit shall be considered *prima facie* evidence that the person making the affidavit does not advocate, and is not a member of an organization that advocates, the overthrow of the Government of the United States by force or violence. Such acts provide further that any person who advocates, or who is a member of an organization that advocates, the overthrow of the Government of the United States by force or violence and accepts employment, the salary or wages for which are paid from any such appropriation, shall be guilty of a felony and, upon conviction, shall be fined not more than \$1,000 or imprisoned for not more than 1 year, or both, and that the above penalty shall be in addition to, and not in substitution for, any other provisions of existing law.

I, WILLIAM MÜLLERPERL

, do solemnly swear (or affirm) that I have read and understand the foregoing; that I do not advocate the overthrow of the Government of the United States by force or violence; that I am not a member of any political party or organization that advocates the overthrow of the Government of the United States by force or violence; and that during such time as I am an employee of the Federal Government, I will not advocate nor become a member of any political party or organization that advocates the overthrow of the Government of the United States by force or violence.

(Signature of employee)

Subscribed and sworn to before me this 21st day of JUNE A. D., 1941

at LANGLEY FIELD VIRGINIA
(City or place) (State)

[SEAL]

NOTARY PUBLIC

PERSONNEL INFORMATION SHEET

Read Instruction Sheet, Form 3465, before filling out this form. All pertinent information on Form 3461 should be reported as of June 15, 1910

(Print or type)

Nov. 10, 1944

(Date)

1. Name: Mutterperl William
 (Last) (First) (Middle)
 Mailing address: 197 Melrose Ave. Hampton Virginia
 (Number and street) (City) (State)
 Place of employment: National Advisory Committee for Aeronautics Langley Field
 (Department or Agency) (Bureau)
Aerodynamics Full Scale Tunnel Langley Field Va.
 (Division) (Section) (City) (State)

2. Present salary:

Indicate basis

\$ 26.50 per

☒ Year. ☐ Day.
☐ Month. ☐ Hour.
☐ Week. ☐ Other.

3. Date of birth:

October

(Month)

1

(Day)

1918

(Year)

If "Other," specify

4. Give a statement of your education or training in the blanks below. (See also Question 23.)

(a) Elementary school (circle number of years completed): 1 2 3 4 5 (6) 7 8

Name and location of school	When attended (Month and year)		Indicate year completed (Write "Grad" if you graduated)	Title of degree received	Semester hours credit received
	From—	To—			
(b) Junior high school: <u>40, Bronx, N.Y.</u>	<u>1929</u>	<u>1931</u>	<u>grad.</u>		
(c) Trade school:					
(d) High school: <u>De Witt Clinton, Bx, N.Y.</u>	<u>1931</u>	<u>1934</u>	<u>grad.</u>		
(e) Other school:					
(f) College or university:					
<u>College of City of N.Y.</u>	<u>Feb. 1934</u>	<u>June 1938</u>	<u>grad.</u>	<u>B.E.E.</u>	<u>14.5</u>
(g) Graduate school:					
<u>College of City of N.Y.</u>	<u>June</u> <u>Sept. 1938</u>	<u>Jan. 1939</u>	<u>grad.</u>	<u>M.E.E.</u>	<u>32</u>

5. College major and minor subjects:

List in the blanks below your major and minor subjects, giving the number of semester hours in each field. Indicate graduate and undergraduate work separately.

	Field of work	Semester hours	(Do not use)
Majors	<u>Electrical Engineering</u>	<u>60</u>	Major
Minors	<u>Mathematics, Physics</u>	<u>25, 25</u>	Minor

6. What foreign languages do you speak fluently, or read readily?

Speak

Read German

7. If you are licensed or registered, check proper square:

- 1 ☐ Licensed to practice law.
2a ☐ Licensed to practice medicine.
2b ☐ Licensed to practice dentistry.
2c ☐ Licensed to practice veterinary science.
3 ☐ Registered pharmacist.
4 ☐ Registered or graduate nurse.
5a ☐ Licensed as architect.
5b ☐ Licensed as professional engineer.
6 ☐ Certified public accountant.
7 ☐ Marine license: Kind
8 ☐ Licensed as stationary or operating engineer.
9 ☐ Licensed as aeronautical pilot or mechanic.
0 ☐ Other license (specify)

8. Place of birth:

Place New York
(State or country only)

If naturalized citizen,

give: Cert. No. Date

Court

9. Classification of position for salary purposes (check service and grade):

Service	Grade
0 <input type="checkbox"/> Unclassified.	1 <input type="checkbox"/> 10 <input type="checkbox"/>
1 <input type="checkbox"/> CAF (clerical, administrative and fiscal).	2 <input checked="" type="checkbox"/> 11 <input type="checkbox"/>
2 <input type="checkbox"/> CM (clerical-mechanical).	3 <input type="checkbox"/> 12 <input type="checkbox"/>
3 <input type="checkbox"/> CU (custodial).	4 <input type="checkbox"/> 13 <input type="checkbox"/>
4 <input checked="" type="checkbox"/> P (professional).	5 <input type="checkbox"/> 14 <input type="checkbox"/>
5 <input type="checkbox"/> SP (subprofessional).	6 <input type="checkbox"/> 15 <input type="checkbox"/>
6 <input type="checkbox"/> EO (Executive order).	7 <input type="checkbox"/> 16 <input type="checkbox"/>
7 <input type="checkbox"/> FCS (field service of Labor Department only).	8 <input type="checkbox"/> 17 <input type="checkbox"/>
8 <input type="checkbox"/> Special act.	9 <input type="checkbox"/> 18 <input type="checkbox"/>
	19 <input type="checkbox"/>

Other service (specify)

10. Status of present position (check one):

- 0 ☐ Classified departmental.
1 ☒ Classified field.
2 ☐ Under labor regulations.
3 ☐ Excepted positions, schedule A.
4 ☐ Excepted positions, schedule B.
5 ☐ Excepted by statute.
6 ☐ Presidential appointment.
7 ☐ Excepted by Executive order.
8 ☐ Outside labor regulations.
9 ☐ Temporary (check if you are a temporary appointee, regardless of the type of position you hold).

11. Individual status with respect to civil service:

Have you ever held, or do you now hold

(a) a probational or permanent civil-service appointment as a result of a civil-service examination (competitive or noncompetitive)?

Yes

(Yes or no)

(b) an appointment under the civil-service labor regulations?

No

(Yes or no)

If you now hold a probational appointment, indicate date on which your probation will be completed.

(Date)

Give length of entire Federal service: 2 8
(Years) (Months)

12. Marital status, dependents:

(Do not fill in)

0 ☒ Single.

1 ☐ Married.

2 ☐ Separated.

3 ☐ Divorced.

4 ☐ Widowed.

Marital status
(Check one)

2 ☐ Dependents (Number completely dependent on you, other than husband or wife).

13. Race and sex:

Male	Female
1 <input checked="" type="checkbox"/> White	6 <input type="checkbox"/>
2 <input type="checkbox"/> Negro	7 <input type="checkbox"/>
3 <input type="checkbox"/> Indian	8 <input type="checkbox"/>
4 <input type="checkbox"/> Yellow	9 <input type="checkbox"/>
5 <input type="checkbox"/> Malayan	0 <input type="checkbox"/>

(Check in left column if male, right column if female.)

14. Military preference (check one):

(Do not fill in)

1 ☒ None.

2 ☐ Veteran preference (5-point).

3 ☐ Disability preference (10-point).

4 ☐ Wife of disabled veteran (10-point).

5 ☐ Widow of veteran (10-point).

If a veteran, indicate

branch of service:

15. Are you now a member of the National Guard, or a member of the Reserves of the Navy, Army, Marine Corps, Coast Guard, or Public Health Service? No
(Yes or no)

Rank

Service:

Branch

16. Legal or voting residence:

New York
(State only)

23
(Congressional district)

17. Experience record (before filling this section be sure to read Item 17 on Instr. a Sheet):
 In the following blanks, give a complete record of all your significant Government and private employment, starting with present position, listing position you have held in reverse chronological order. Basis of pay for each job, as: Hour, day, week, month, or year. Each list of any publications or inventions of which you are author or inventor at bottom of page. Omit jobs of less than 3 months' duration. List duties and functions in such form that your special qualifications are clear.

Name: Natl. Adv. Comm. for Aero.
 Address: Langley Field
 City and State: Virginia
 Kind of establishment or shop: Aeronautical Research Lab.
 Dates:
 From Apr. 1929 To Nov. 1941
 (Do not use this space)

Title of job: Assistant Elec. Eng. \$ 26.00
 Your duties and specialty: per year
Acoustic research. The investigation of a noise problem of an aircraft, such as the thing of wing loading, tail fin, etc., cooling of aircraft engines. Also electrical work.
 Machines or equipment used: Wind tunnel and associated apparatus.

Name: _____
 Address: _____
 City and State: _____
 Kind of establishment or shop: _____
 Dates:
 From _____ To _____
 (Do not use this space)

Title of job: _____ \$ _____
 Your duties and specialty: _____

 Machines or equipment used: _____

Name: _____
 Address: _____
 City and State: _____
 Kind of establishment or shop: _____
 Dates:
 From _____ To _____
 (Do not use this space)

Title of job: _____ \$ _____
 Your duties and specialty: _____

 Machines or equipment used: _____

Name: _____
 Address: _____
 City and State: _____
 Kind of establishment or shop: _____
 Dates:
 From _____ To _____
 (Do not use this space)

Title of job: _____ \$ _____
 Your duties and specialty: _____

 Machines or equipment used: _____

(If additional space is necessary, use "Continuation sheet" (U. S. C. Form 3464b) and attach here)

16-15543

Publications:

- 1) The end plate effect of the horizontal rail surface on the vertical rail surface by S. Katzoff & Mrs. Muntzfeld
- 2) The calculation of spatial distributions on swept back wings - Mrs. Muntzfeld

18. What Federal civil service examinations have you passed?

Type of examination

Year passed

Junior Electric Engineer 1949

Junior Electrician 1942

Junior Electrician 1941

19. Height and Weight:

Height 6' 2" Weight 170 lbs

20. Physical condition:

Specify any physical defect, disease or disability. If none, write "None."

(Specify) None

21. Technical avocations (check):

- 0 ☐ Marksmanship.
- 1 ☐ Motion pictures and photography.
- 2 ☐ Short-wave radio operation.
- 3 ☐ Aviation.
- 4 ☐ Art work (specify).
- 5 ☐ Organizing and public speaking.
- 6 ☐ Musical arts (specify).
- 7 ☐ Handicraft (specify).
- 8 ☐ Mountaineering and exploring.
- 9 ☐ Other (specify).

24. If you have any preference for types of positions other than that you now hold, indicate in order of preference

If you desire a transfer to some other locality, state where

1. _____ Indicate lowest acceptable salary \$ _____
 2. _____ Indicate lowest acceptable salary \$ _____

22. Check below all in the following:

- | | |
|--------------------------------------------------|--------------------------------------------------|
| <input type="checkbox"/> Adding machine. | <input type="checkbox"/> Photostat. |
| <input type="checkbox"/> Addressograph. | <input type="checkbox"/> Shorthand. |
| <input type="checkbox"/> Blueprint. | <input type="checkbox"/> Stenograph. |
| <input type="checkbox"/> Bookkeeping machine. | <input type="checkbox"/> Stenotype. |
| <input type="checkbox"/> Calculating machine. | <input type="checkbox"/> Switchboard, telephone. |
| <input type="checkbox"/> Comptometer. | <input type="checkbox"/> Calculator. |
| <input type="checkbox"/> Dictaphone transcriber. | <input type="checkbox"/> Teletype. |
| <input type="checkbox"/> Graphotype. | <input type="checkbox"/> Typewriter. |
| <input type="checkbox"/> Key-punch or verifier. | <input type="checkbox"/> Varitype. |
| <input type="checkbox"/> Mimeograph. | <input type="checkbox"/> Telegraph. |
| <input type="checkbox"/> Multilith. | |

Other _____

23. List below any specialized training or courses you have taken other than those covered in item 5, which have a bearing on your qualifications, and indicate time spent on each.

Name of school and course taken	Weeks	Hours per week
None		

I CERTIFY that the foregoing answers are correct to the best of my knowledge and belief.

William M. Mottkopf
 (Name which is used as official signature)

REQU FOR REPORT ON LOYALTY DATA

THIS FORM TO BE USED FOR INDIVIDUAL EMPLOYERS AND EMPLOYEES EMPLOYED BY THE UNITED STATES GOVERNMENT OR BY ANY AGENCY OF THE UNITED STATES GOVERNMENT

To: The Federal Bureau of Investigation, Washington 25, D. C.

The following information is furnished for identification purposes on the person named below. Kindly furnish a report on any derogatory loyalty information contained in your files. (The fingerprints of this person are attached)

1. FULL NAME

(Include and abbreviate all names if full name are not available)

(Surname)

(Given name)

(Middle or other names)

PERL

WILLIAM

NO-E

2. ALIASES AND NICKNAMES

None

3. DATE OF THIS REPORT

3-11-48

4. SPECIAL NUMBERS KNOWN TO REQUESTING AGENCY (For example: 1948-10-12, passport number, Army or Navy card number, etc.) (If none, state "None")

A.S.N. 35928581

5. PLACE OF BIRTH

New York, New York

6. DATE OF BIRTH

10-1-12

7. TITLE OF POSITION, OCCUPATION OR PROFESSION

Aeronautical Engineer

8. SEX

☒ MALE
☐ FEMALE

9. MARITAL STATUS

☒ SINGLE
☐ MARRIED

10. IF MARRIED, GIVE SPOUSE'S FULL NAME, AND DATE AND PLACE OF BIRTH

None

11. ORGANIZATIONS WITH WHICH AFFILIATED OTHER THAN RELIGIOUS OR POLITICAL ORGANIZATIONS OR THOSE WHICH SHOW RELIGIOUS OR POLITICAL AFFILIATIONS

American Physical Society - Columbia University.

12. DATES AND PLACES OF RESIDENCE FOR THE LAST 10 YEARS

Date	Street	City	State
1938 - 1939	834 Beck Street	New York	New York
1939 - 1944	Hampton	Virginia	
1944 - 1945	11703 Madison Avenue	Cleveland	Ohio
1945 - 1946	1516 East 120th Street	Cleveland	Ohio
1946	California Institute of Technology	Pasadena	California
1946 - 1948	65 Morton Street	New York	New York

13. DATES, NAMES AND ADDRESSES OF EMPLOYERS FOR THE LAST 10 YEARS

Date	Employer	Address
1938 - 1939	Student	College of City of New York, New York, New York
1939 - 1942	NACA FPL	Langley Field, Virginia
1942 - 1946	NACA FPL	Cleveland Airport, Cleveland, Ohio
1946 - 1948	Student	California Institute of Technology, Pasadena, California (on leave of absence from NACA)

14. THIS AGENCY HAS LOYALTY INFORMATION REPORTS FURNISHED BY THE AGENCIES INDICATED BELOW:

AGENCY WHICH MADE THE LOYALTY REPORT	DATE OF REPORT	REMARKS

15. THIS SPACE RESERVED FOR RETURN REPORT TO AGENCY WHERE NO DEROGATORY INFORMATION IS DEVELOPED

16. NAME AND ADDRESS OF REQUESTING AGENCY

National Advisory Committee for Aeronautics
Flight Propulsion Research Laboratory
Cleveland Airport, Cleveland, Ohio.

FILE COPY PERSONNEL OFFICE

NO-130

December 1, 1940

Sir:

Pursuant to authorization of the Chairman, you are hereby transferred from Aeronautical Engineer P-4, with pay at the rate of \$3800 per annum, Langley Memorial Aeronautical Laboratory, Langley Field, Hampton, Virginia, and appointed Aeronautical Engineer, at the same grade and pay, Aircraft Engine Research Laboratory, Grayton and Brookpark Roads, Cleveland, Ohio, effective from the date of your entrance on duty.

This transfer is required in the interest of the Government and is not for your convenience.

You are hereby authorized to proceed to Cleveland, Ohio, at the earliest possible date, via privately-owned automobile, and for necessary direct automobile travel you will be allowed 2 cents per mile. It has been determined that travel by automobile is more economical and advantageous to the Government.

While traveling under this authority you will be allowed traveling expenses in accordance with the Standardized Government Travel Regulations, including \$6.00 per diem in lieu of subsistence. The excess time required for travel by automobile over that required for travel by train will be charged to your leave account and subsistence will not be allowed for such time.

You are authorized to have your household and personal effects shipped at Government expense in accordance with the provisions of the attached Executive Order No. 8588 of November 7, 1940, as amended, applicable to persons having no dependents living with them. Shipment shall begin within the six-month period following the effective date of this transfer, unless an extension is requested and approved within that period. The provisions of the Executive Order will be strictly observed.

Respectfully,

Mr. William Hutterpeil
Aeronautical Engineer P-4
Langley Memorial Aeronautical
Laboratory
Langley Field, Virginia

NATIONAL ADVISORY COMMITTEE
FOR AERONAUTICS

E. H. CHAMBERLIN

Acting Secretary

(Through official channels.)

Enclosure Copy to [WA]
MEK Copy to AERL

204 Dec 4, 1940
Eff. Jan 1, 1944 for payroll purposes only

Cleveland, Ohio,
November 25, 1943.

From AEPL
To LEAL

Subject: Transfer of Mr. Mutterperl to AEPL.

1. It is understood that tentative unofficial preparations have been made between Mr. Crowley of LEAL and Mr. J. W. Sullivan of AEPL for the transfer of Mr. Mutterperl from LEAL to AEPL, effective on or about December 1, 1943. It is assumed that it is entirely agreeable to your laboratory to have this transfer consummated. Inasmuch as the transfer will be in the interest of the Government, it is our intention to recommend that the transfer be made at Government expense and we will therefore need the following information regarding Mr. Mutterperl.

- (a) Grade and salary
- (b) Mode of transportation desired
- (c) Whether or not household goods or personal effects are to be shipped
- (d) Whether or not Mr. Mutterperl has dependents living with him.

2. Your prompt attention in reply to this letter will be appreciated as the proposed transfer date of December 1 is fast approaching.

Edward R. Sharp,
Manager.

WLB
ELP:mhb

Copy to Washington Office

RECEIVED BY AEPL
PERSONNEL FILES

NOV 25 1943

Cleveland, Ohio
November 20, 1943.

Mr. Serrano -

MEMORANDUM: Mr. Kemper,
Executive Engineer. *ex.*

It is requested that necessary paper work be initiated for an official transfer of Mr. William Mutterperl from the L.H.A.L. to the A.E.R.I. on or about December 1, 1943. This date has been checked with Mr. Crowley of L.H.A.L., and is satisfactory as indicated on the attached letter.

ak
Abe Silverstein,
Chief of Engine Installations Division.

PA/11/23
Good expense

Langley Field, Va.,
November 18, 1943.

Mr. Abe Silverstein,
National Advisory Committee for Aeronautics,
Cleveland, Ohio.

Dear Abe:

→ In regard to Mutterperl's transfer, I talked the matter over with Mutterperl and Dearborn and it looks as though it will be possible to transfer him to Cleveland about December 1 as we previously agreed. Mutterperl is getting his affairs arranged with this in view.

As regards Mutterperl's papers, the situation has not changed appreciably as yet. As we agreed, I have Jones and von Doenhoff looking these papers over with a view to commenting particularly on their usefulness and I have hopes that we will be able, with perhaps certain revisions in the presentation, to get them published. I don't think that we can clean them up before the first of December, and after talking to Mutterperl and Dearborn I believe that with Katzoff's assistance we can handle the situation at least until actual revision is required, at which time of course we could send Katzoff's suggestions to Mutterperl for final changes. With the date so uncertain as regards the final disposition of these papers, I think it best that Mutterperl go to Cleveland about December 1.

→ I will take steps here to clear Mutterperl for this transfer but I suggest that you, as a matter of record at least, start through a request from Cleveland for his transfer there.

We are having a lot of grief with the fan on the PBW-3 and I may want to get you down for a couple of days to help us thrash the solution out. So keep your work organized so you can get away for a couple of days on short notice.

Yours very truly,


John W. Crow, Jr.

PERSONAL FILES

Langley Field, Va.
April 8, 1943

MEMORANDUM For Chief Aerodynamics Division.

Subject: Recommendation for the promotion of
Mr. William Mutterperl.

1. It is recommended that Mr. William Mutterperl be promoted from his present pay status of Associate Electrical Engineer (P-3) at \$3200 per annum to Aeronautical Engineer (P-4) at \$3800 per annum.

2. Mr. Mutterperl has demonstrated exceptional ability in theoretical research and in his ability to grasp, understand, and develop difficult and abstruse problems. His recent work on the theory and design of axial-flow fans represents an outstanding bit of research and is a substantial contribution in this field. His theoretical studies of sweepback, airfoils in cascade, and development of new methods for the calculation of pressure distribution on airfoils are examples of the type of analytical studies which he is capable of handling. Mr. Mutterperl has a brilliant mind and has shown a continuous improvement during the several years he has been at the full-scale tunnel. I firmly believe that he will make even more substantial contributions in the field of aerodynamics and feel that he should be encouraged in every way possible.

/s/ Abe Silverstein

Abe Silverstein,
Principal Aeronautical Engineer.

AS:flw

EWK 4/14

NOV 29 1941

Sir:

Pursuant to action of the Committee on Personnel, Buildings, and Equipment, you are hereby rerated from Junior Electrical Engineer, Grade P-1, with pay at the rate of \$2200 per annum, and appointed Assistant Electrical Engineer, Grade P-2, with pay at the rate of \$2600 per annum, effective April 1, 1941.

Respectfully,

NATIONAL ADVISORY COMMITTEE
FOR AERONAUTICS.

Secretary.

Mr. William Mutterperl,
Langley Memorial Aeronautical Laboratory,
Langley Field, Hampton, Virginia.

(Through official channels.)

DAH
COPY TO LMAL

CERTIFICATE NO. P-11471, SR:EH, 3-19-41

10/16/39
Dear Mr. Chairman:

I am writing to you regarding my appointment to the Physical Research Division.

For approximately six months I have been assigned to the Maintenance Section. While I have no complaint to make concerning my treatment in the Maintenance Section, I do not feel that I am of as much value to the Committee in this section as I could be elsewhere for the following reasons:

- 1) The duties I am assigned to at present, being entirely of a practical nature, do not interest me as much as I believe research work would.
- 2) My interests are in the domain of mathematics and physics.

In view of the foregoing I beg you to consider transferring me to the Physical Research Division.

Respectfully Submitted,
William Muttiper

W.H.G.
10/16/39

Feb 12, 1947.

Arthur M. Rotrock
Chief of Research
Aircraft Engine Research Laboratory
NACA

Dear Mr. Rotrock,

I should like to request a year's extension of my leave of absence which ends about Feb. 16, 1947. The main reason for this request is that I stand a fair chance of doing a thesis under von Kármán here at Columbia University.

I realize and quite regret the fact that I am more or less breaking my word of a year ago of returning to the organization at this time. (unfessen)
Perhaps my present opportunity of studying under von Kármán will be considered a reasonable extenuating circumstance.

I deeply hope that you will be favorably disposed toward my desire to maintain this interim connection with NACA.

Sincerely yours,
Bill Post

WOP 3/1/47
1011 1011 1011
2-33-47
2-12-47
2.9.10.1. for period
requested by Mr. Post approved
Abe Silverstein
OK
EZ

Approved
J. H. Johnson

Memorandum to Mr. H. J. E. Reid

Subject: Absence from the Laboratory on May 31 and June 1, 1943

I was away from the field on May 31, and June 1. Because the necessity for my departure became apparent very shortly before I left, and because I did not realize that Monday was a holiday, formal permission to leave was not requested. It is believed that no great delay in my work occurred because of my absence.

William M. Mottel

O. K. H. C. W. - June 5, 1943.

Rec. approval
Est. for Exam
Approved:

MMH 6/10/43

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SILVERSTEIN, RACA AIRCRAFT ENGINE RESEARCH LAB. CHADBY
CLEVELAND AIRPORT

STAYING OUT A OUT A WEEK EMERGENCY FIRE CALL

WESTERN UNION CABLES CENTRAL IF NEEDED

W. BUTTERFIELD

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COPY FOR

NACA-Cleveland

Cleveland, Ohio,
February 23, 1945.

MEMORANDUM For the Manager.

Subject: Recommendation for promotion of Mr. William Perl, Analytical Section,
Engine Installation Research Division.

1. It is recommended that Mr. William Perl be promoted from Aeronautical Engineer, grade P-4, at the rate of \$3800 per annum, to Aeronautical Engineer, grade P-5, at the rate of \$4600 per annum.

2. Mr. Perl entered duty with the Committee on April 8, 1939, as a Junior Electrical Engineer, grade P-1, at the Langley Field laboratory. While at Langley Field he was attached to the Analytical group of the Full-Scale Wind Tunnel, under my supervision. On December 23, 1943, he was transferred to the Cleveland laboratory to take charge of the Analytical Section of the Engine Installation Research Division.

3. Mr. Perl's work has been outstanding during the entire period of his employment. His knowledge and skill in the field of theoretical and applied aerodynamics rank him as one of the leading men in the field, and he has written papers which may prove to be classics in the field of potential flow. His publications include the following:

- (a) "Calculation of Span Load Distributions on Swept Back Wings," December, 1941 - T.N. 834, by William Mutterperl (since abbreviated to William Perl).
- (b) "The Conformal Transformation of an Airfoil into a Single Straight Line, and its Application to the Inverse Problem of Airfoil Theory," December, 1944 - ARR No. 14K22a, by William Mutterperl.
- (c) "High Altitude Cooling - Part VI - Axial-Flow Fans and Cooling Power," September, 1944 - ARR No. 14111, by William Mutterperl.
- (d) "A Solution of the Direct and Inverse Potential Problems for Arbitrary Cascades of Airfoils," December, 1944 - ARR 14K22b, by William Mutterperl.
- (e) "The End-Plate Effect of a Horizontal Tail Surface on a Vertical-Tail Surface," February, 1941 - T.N. 797, by William Mutterperl and Mr. Katzoff.
- (f) "A Two-Dimensional Incompressible Potential Flow of Corrugated and Distorted Infinite Surfaces," January, 1945 - ARR E5A05, by William Perl and L. J. Green.

(g) "Some Effects of Compressibility of the Flow Through Fans and Turbines," December, 1944, by William Perl and H. Epstein.

(h) "A General Representation for Axial Flow Fans and Turbines," January, 1945, by Mr. Perl and Mr. Tucker.

4. Mr. Perl is at present in charge of about 12 men, who are engaged in theoretical and applied research relating to problems of jet propulsion, missile design, and supersonic wind tunnel design. He has shown ability in developing the men who are working for him, so that they produce a high quality of research. His group is at present working on the difficult problems relating to the determination of theoretical pressure distributions on airfoils in cascades, and are obtaining excellent results. He has also developed a method of applying the relaxation method to the calculation of the flow over airfoils in cascades and in channels at high velocity.

5. Because of his excellent record, and outstanding brilliance in the field of theoretical and applied aerodynamics, because of his continued excellent work in the associated fields of jet propulsion and missile development, and because of his superior ability in directing the work of his juniors, it is believed that Mr. Perl is entitled to promotion to the position of Aeronautical Engineer, grade P-5.

approved for change in grade from P-4 to P-5
Cheng
2/24/45

Abe Silverstein

Abe Silverstein, Chief,
Engine Installation Research Division.

AS:real

cc: Mr. Silverstein
Personnel Files

March 3, 1948.

Mr. William Paul,
65 Morton Street,
New York 14, New York.

Dear Sir:

The Investigation of Employees under the President's Loyalty Program under Executive Order 9835 dated March 21, 1947 requests that each employee submit Standard Form 84 "Request for Report on Loyalty Data" and Standard Form 86 "Fingerprint Chart". This program must be completed by March 10, 1948. It is therefore requested that you complete the attached forms and return to this office immediately.

Your Fingerprint Chart may be taken to the local Board of Civil Service Examiners (Local Post Office) or the Police Station located in New York, New York.

A self-addressed envelope is enclosed herewith for your convenience.

Yours very truly,

Em
Emilie Matayka,
Chief, Employment and
Examining Section.

Encls.

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PERSONNEL FILES

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✓ 2011 Paul, W.

March 10, 1948.

Mr. William Perl,
65 Marton Street,
New York 14, N. Y.

Dear Mr. Perl:

This is to advise that your leave without pay period
has been extended to June 15, 1948 in order that you may
complete your present semester's work at Columbia University.

It is requested that you immediately report to the
PERSONNEL OFFICER upon your return to duty.

Yours very truly,

Robert E. Schmidt

Robert E. Schmidt,
Acting Asst. Personnel Officer.

RES:jms
cc A. Silverstein
Pers. Records ✓
Pers. Actions ✓
Fiscal
Empl. Relations
Files ✓

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RETURN TO AER
PERSONNEL FILES

April 13, 1945.

Dr. William Perl,
15 Barton Street,
New York 14, New York.

Dear Dr. Perl:

Our laboratory has been following your work at Columbia University with interest and has been very gratified with your progress.

I am pleased to inform you that Dr. Silverstein has recommended you for promotion to the position of Aeronautical Research Scientist, P-3, \$7102.20 per annum, and that this promotion has received necessary NACA approvals.

Payroll regulations prohibit the promotion of an employee in a leave without pay status and, therefore, your promotion will not be effective until you report to duty status.

I am bringing these matters to your attention so you will know that the NACA has completed all action on its part necessary to give you a P-3 rating.

We will appreciate hearing from you as to when you will report to duty status. In the event you have any questions regarding this matter, do not hesitate to bring them to my attention.

Yours very truly,

John D. Mansfield

John D. Mansfield,

Personnel & Administrative Management Officer.

VC:mes

cc: Personnel
Files
Silverstein

RETURN TO AERI
PERSONNEL FILE

NACA - Lewis

Cleveland, Ohio,
February 2, 1949.

MEMORANDUM For Chief, Wind Tunnel and Flight Division.

Subject: Request for official leave.

1. Official leave is requested for the period of January 24 through January 28 during which time the writer attended the annual meetings of the Institute of Aeronautical Sciences and the American Physical Society in New York.

2. Some highlights of the meetings are as follows:

(a) The paper of Busemann on "The Problem of Drag at High Subsonic Speeds" was based on the concept of Guderley that flows past airfoils with continuous local supersonic regions occur theoretically only rarely regardless of size of local supersonic region. This concept is in contradiction with the actual calculations of supercritical velocity distributions for airfoils by the methods of Kaplan, Emmons, and Perl. No attempt was made by Busemann to reconcile these results with the aforementioned concept of Guderley.

(b) Substantial progress in setting up a statistical theory of isotropic turbulence was outlined by Lin in the turbulence symposium. The progress has been based essentially on applying the concept of similarity to the spectrum of turbulence. Very impressive checks with experiment were indicated. The theory is still basically phenomenological. A basis has been established however for deepening the analysis on the one hand toward a truly statistical theory and on the other hand for making a start on non-isotropic turbulence. Much emphasis is being placed on refining and making precise the experimental results, on which the theory is extremely dependent. These aspects were discussed by Corrsin, Laufer, Kovasznay, and Frenkiel. The astronomers seem to be taking a great interest in turbulence. For example, turbulent flow processes in the sun are required to explain the high temperatures (of order on million degrees Centigrade) existing in the sun's outer atmosphere and responsible for the ultra-violet and x-ray radiations received by the earth.

(c) The joint paper by Klein and Perl on "Calculation of Compressible Flow Past Ellipsoids of Revolution by an Integral Method" elicited an inquiry from Mr. Kent (of Aberdeen Proving Ground) as to how the method compared with the relaxation method. The impression is that a wait-and-see attitude exists toward the integral method pending more extensive comparisons of results with those by other methods.

W 2/3/49

(d) The use of the shock tube as an instrument for high speed (possibly hypersonic) investigations and for studies of transient phenomena and phenomena requiring low free stream turbulence was discussed. The results presented, considering the simplicity and negligible power requirements of the shock tube, were very impressive to me. Research on this instrument might well be undertaken at this laboratory.

(e) An interesting paper on the stability of plane flame fronts normal to a stream was presented. The methods used were similar to those by which the stability of a laminar boundary layer is analyzed. A photograph of the initial stages of the breakup of a laminar flame front was presented which showed that the theoretical problem is not an academic one.

(f) On the fundamental side, the retiring presidential address of the American Physical Society by J. R. Oppenheimer on "Fields and Quanta" was a model illustration of how to combine difficult technical considerations with a poetic and generally illuminating method of delivery. Oppenheimer's opinion seemed to be that in a couple of years, when "the mathematics has been slugged through," the particle and wave aspects of a field of radiation and the particle and wave aspects of the matter with which the radiation is in interaction will have been combined into a satisfactory over-all theory.

3. In general, the opportunity afforded by the meetings of exchanging views and gossip with other researchers was considered quite valuable. In my opinion the Lewis laboratory would benefit materially from a wider representation at such meetings.

W. Perl
William Perl,
Aeronautical Research Scientist.

WP:aw

cc: Mr. Silverstein
Mr. Perl
Files

Copied AS/aw

Julius Rosenberg ET AL.

Referral
National
Aeronautics
And Space
Administration

No. 9

Cleveland, Ohio
November 20, 1950

MEMO, SAC:

Re: WILLIAM PERL, aka
ESPIONAGE - R

A review of the gate registers at WACA, Cleveland, for the period February, 1946 to date reflects the following entries which might be of interest:

On March 7, 1946, MAYO GEEKNEBERG, 56 C, Elizabeth Road, Hampton, Virginia, representing IMAL visited ROBERT RESNIK.

On March 11, 1946, C. L. MUZZY, 1120 Harmon Avenue, representing Aero Products Division, General Motors, visited ABE SILVERSTEIN. He was accompanied by JOHN F. HARRIS.

On March 29, 1946, W. D. BANNIE, 1106 West 41st Place, Los Angeles, representing CIT visited ABE SILVERSTEIN.

On March 29, 1946, S. D. DOMBIKER and one KUHN or SHARP, both of York, Pennsylvania, representing the S. MORGAN SMITH Company visited SILVERSTEIN.

On June 25, 1946, PAUL E. MURRAY of Cleveland, Ohio representing General Electric visited one Mr. PAUL.

On August 9, 1946, C. H. JACOBSON, 103 North Third, Reading, Pennsylvania, representing Marquardt Aircraft, visited ABE SILVERSTEIN.

On August 20, 1946, R. W. LUDKENS, Grand Rapids, Michigan, visited SILVERSTEIN.

On August 20, 1948, ARTHUR KANTROWITZ of Cornell University, Ithaca, New York, and a resident of 1354 State Street, Ithaca, visited SILVERSTEIN from 12:20 PM until 5:38 PM.

On September 22, 1948, FREDERICH JUDD, 19 Bennett Place, Amityville, Long Island, representing Republic Aviation, visited SILVERSTEIN.

On December 21, 1948, T. M. CORRETT, 6909 Southfield, representing the FBI, visited WILLIAM PERL. It was ascertained this was in connection with our file 121-777 entitled "HERBERT RALPH PASS, LOYALTY OF GOVERNMENT EMPLOYEES."

The case

JBO'D:mlk
65-2730
cc: 65-2726

SEARCHED.....	INDEXED.....
SERIALIZED.....	FILED.....
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FBI - CLEVELAND	

65-2730-377

MEMO, SAC.

On December 27, 1948, H. T. EPSTEIN, Ann Arbor, Michigan, visited ABE SILVERSTEIN.

On December 29, 1948, H. E. SINGHAUS, 14410 Northfield Avenue, representing self, visited WILLIAM PERL from 1:40 PM to 2:10 PM.

On January 17, 1949, C. W. PORTER, 242 East Main Street, St. Clairsville, Ohio, representing the Hanna Coal Company, visited ABE SILVERSTEIN.

On January 24, 1949, T. F. GIBSON, 3444 Altamont, Cleveland Heights, Ohio, representing the Central Bureau, 309 Mayfield Road, visited ABE SILVERSTEIN and JESSE HALL.

On February 1, 1949, R. D. SQUIRES of Franklin, Michigan, representing Squire's Gauge, Berkley, Michigan, visited ABE SILVERSTEIN.

On May 31, 1949, GALE K. ROOTS, 35 Chalfield, Bronxville, New York, visited MILTON KLEIN.

On July 5, 1949, H. E. SINGHAUS, mentioned in the December 29, 1948 entry, visited PERL from 11:35 AM until 12:16 PM.

On May 24, 1950, DAVID OKRENT, 383 Harvard Street, Cambridge, representing self, visited Dr. PERL from 8:37 AM until 9:40 AM.

On June 21, 1950, RALPH J. HARRISON, MIT Graduate House, Cambridge, representing MIT, Cambridge, Massachusetts, visited Dr. PERL, at the Materials and Stresses Building, from 9:43 AM until 11:56 AM.

On June 16, 1950, R. FIEN and M. FIEN of 113 Comstock Avenue and J. SANDERS of 118 Circle Road, all of Syracuse, representing selves, visited ABE SILVERSTEIN from 1:55 PM until 5:10 PM.

The registers prior to February of 1946 have been destroyed. The period from 1946 up to June of 1948 was only spot-checked since PERL was then studying at Columbia University.

JOHN B. O'DONOGHUE
SA

FEDERAL BUREAU OF INVESTIGATION

~~SECURITY INFORMATION - CONFIDENTIAL~~FORM NO. 1
THIS CASE ORIGINATED AT

BOSTON

NY FILE NO. 65-15403 JP

REPORT MADE AT NEW YORK	DATE WHEN MADE 9/29/51	PERIOD FOR WHICH MADE 7/23, 24, 25, 26, 27; 9/6, 10-14, 17-22/51	REPORT MADE BY HERMAN C. LITTLEJOHN
TITLE WELDON BRUCE DAYTON			CHARACTER OF CASE ESPIONAGE - R; PERJURY

SYNOPSIS OF FACTS:

FLOYD ELWYN, Jr., advised he definitely recalls seeing DAYTON, FINESTONE, PERL and PICKARD at 65 Morton St., NYC, on or about 1/29/50, and seeing DAYTON and PERL together at that address in either July or August, 1949. Mrs. FLOYD ELWYN, Jr. is positive she observed DAYTON, FINESTONE and PERL together in basement at 65 Morton St., on the day SARAH'S apartment was vacated by PICKARD, which has been established as 1/29/50. Miss MELISANDE CONGDOL, former girl friend of PICKARD, advised her engagement calendar contained notation reflecting she spent the afternoon and evening of 1/28/50 at the Morton St. apartment with PICKARD. She said that two to four days later, PICKARD told her he and FINESTONE moved furniture from the apartment to the basement on the day following her visit. She remembers PICKARD told her that while he and FINESTONE were moving this furniture, two men called on them and it is her recollection that PICKARD did not know the complete identity of these men as FINESTONE had been vague in introducing them. However, she believes

~~SECRET~~
~~SECURITY INFORMATION~~
~~CONFIDENTIAL~~
~~DATE 12-23-51~~
~~FILED~~

DECLASSIFIED BY 4/13 3/2/78
HAL/H

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APPROVED AND FORWARDED: <u>[Signature]</u> SPECIAL AGENT IN CHARGE	DO NOT WRITE IN THESE SPACES 65-59336-45
COPIES OF THIS REPORT (5) - Bureau (65-59336) 1 - Albany (65-1675) (Info.) 3 - Boston (65-3424) 1 - Cleveland (65-2740) (Info.) 1 - Los Angeles (Info.) (Copies Cont'd.)	RECORDED - 122 INDEXED - 122 EX-78

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~~SECURITY INFORMATION - CONFIDENTIAL~~

NY 65-15403

PICKARD told her one or both of these men were connected with Cornell University. Results, check of Robinson Airlines, NYC, for reservation records, January, 1950, set forth. Records US Weather Bureau, NYC, reflect 1/29/50 was a warm dry day, while on 2/1/50, the day DAYTON allegedly drove to NY with ERNEST PAUL GRAY, there was snow over New Jersey, New York and Pennsylvania.

- P -

DETAILS: On September 18, 1951, FLOYD ELWYN, JR., Superintendent, 65 Morton Street, New York City, advised SA ROBERT F. ROYAL that he definitely recalls having seen subject DAYTON, MAXWELL WINSTONE, WILLIAM PERL and GARY PICKARD at 65 Morton Street on or about January 29, 1950, this being the day which has been established as the date furniture was moved from apartment 6-I at this address, at the time the apartment leased in the name of ALFRED SARALT was vacated by GARY PICKARD.

FLOYD ELWYN, JR., further advised that he also definitely recalls seeing DAYTON and PERL together at 65 Morton Street in the Summer of 1949 most probably in July or August, and that he believes that he has observed DAYTON at 65 Morton Street on other unspecified occasions, the details of which he is unable to recall.

(Copies Cont'd.)

- 2 - Newark
- 1 - San Francisco (65-4233) (Info.)
- 1 - Washington Field (Info.)
- 3 - New York

NY 65-15403

It is noted that the records of the National Advisory Committee for Aeronautics, Cleveland, Ohio, have reflected that WILLIAM PERL was on annual leave from July 18th through July 22, 1949. These dates were Monday through Friday so PERL could have been in New York from July 16th through July 24, 1949. PERL has advised that during this period he visited New York on vacation, stopping at his parents home (936 Tiffany Street, Bronx, New York), and at the residence of HETTY SAVIDGE (104 East 38th Street, New York City), who is now PERL'S wife.

On September 18, 1951, Mrs. FLOYD ELWYN, JR., reiterated to SA ROBERT F. ROYAL that she is positive that on the moving day, mentioned above, she observed DAYTON, FINESTONE and PERL together in the basement at 65 Morton Street. Mrs. ELWYN further definitely recalls that on April 17, 1951, while sitting in the Grand Jury waiting room, United States Court House, Foley Square, New York City, near DAYTON and FINESTONE, she overheard FINESTONE remark to DAYTON "You don't have to worry about the woman. (He looked in her direction) However, you will have to worry about the man (looking in FLOYD ELWYN, JR.'s direction)". Mrs. ELWYN said there was also a general discussion between DAYTON and FINESTONE pertaining to the identification of DAYTON by the ELWYNS and that either DAYTON or FINESTONE stated "We will have to stick together."

Miss MELISANDE "RONNY" CONGDON, who resides at the Evangeline residence, 123 West 13th Street, New York City, and is employed in the Personnel Division of Lever Brothers, Park Avenue and 59th Street, New York City, was interviewed by SA ROBERT F. ROYAL, on July 25th and September 20, 1951. It should be noted that Miss CONGDON is a former girl friend of GARY PICKARD and on several occasions she visited 65 Morton Street where PICKARD resided in an apartment 6-I, leased by ALFRED SARANT. PICKARD'S tenancy of this apartment dated from October, 1949 to January 29, 1950.

NY 65-15403

Miss CONGDON stated that from a review of her engagement calendar, she noted that she spent the afternoon and evening of January 28, 1950 at the Morton Street apartment of GARY PICKARD and she definitely recalled that the superintendent of the building and two or three other individuals visited the apartment on that date while she was there. She said it was her understanding that one of these individuals was a prospective tenant.

It is noted that THOMAS DONOVAN, Mrs. FRANK GARLAND, and Mr. and Mrs. THOMAS A. MC GILL accompanied FLOYD ELAYN, JR., on an inspection of this apartment on January 28, 1950, during the dinner hour. Mr. DONOVAN subsequently rented this apartment.

Miss CONGDON advised SA ROYAL that a review of her engagement calendar indicates that the next time she saw GARY PICKARD was at her residence approximately two to four days subsequent to January 28, 1950. She stated that she definitely recalls that PICKARD advised her during this visit that he and MAXWELL FINESTONE moved the remaining furniture from apartment 6-I, 65 Morton Street, to the basement at that address on the day following her last visit to PICKARD'S apartment. She said that this moving day would have been on Sunday, January 29, 1950. Miss CONGDON continued that prior to this visit by PICKARD, she had discussed with PICKARD his difficulty in getting FINESTONE to help him remove furnishings from 65 Morton Street. In this connection, Miss CONGDON stated that from a review of her engagement calendar, she noted that FINESTONE was living at 418 East 9th Street, New York City, on January 7, 1950, for she had recorded an entry indicating that she had attended a party at that address on that date. Miss CONGDON also advised SA ROYAL that she definitely recalls that PICKARD told her during his visit to her residence, mentioned above, that during the moving of the furniture, two men had dropped in on FINESTONE and himself at the Morton Street apartment. She said PICKARD did not identify these individuals and it is her recollection that PICKARD did not know their complete identities as FINESTONE had been vague in introducing them to PICKARD. Miss CONGDON stated that it was her recollection

NY 65-15403

that PICKARD told her that either one or both of these men were connected in some way with Cornell University.

It is recalled that PICKARD has advised that FINESTONE introduced these two men to him as "BILL and BRUCE", and that PICKARD identified the individuals as WILLIAM PERL and subject DAYTON. Miss CONGDON was shown photographs of DAYTON, PERL and ELEANOR GLASSMAN, among others, and she said that DAYTON'S photograph was familiar and that she could have met him at either the Morton Street apartment or at the 418 East 9th Street apartment where FINESTONE resided. She also stated that WILLIAM PERL and ELEANOR GLASSMAN looked familiar to her and that she had possibly met PERL at FINESTONE'S 9th Street apartment with ELEANOR GLASSMAN, (She is the sister of VIVIAN GLASSMAN). However, Miss CONGDON could not actually say that she had ever met DAYTON, ELEANOR GLASSMAN or PERL.

On September 10, 1951, Miss BETSIE EVANS, Manager of Robinson Airlines, New York City, advised SA ROBERT F. ROYAL that a check of reservation records maintained by her office for the month of January, 1950 reflected only one reservation for anyone named DAYTON, this being a reservation for January 20, 1950. Miss EVANS said that on January 19, 1950 a "Mr. DAYTON, Hotel Revere, R. 46, Morristown (New Jersey)" made a reservation for a flight number 11 the following day and the records indicate that DAYTON had made this flight. She also stated that the records contained a notation that the company was to call "Mr. DAYTON" at the Hotel Revere before 8:00 a.m. on January 20, 1950 if his flight was cancelled.

On August 29, 1951, JAMES MC GUIRE, United States Weather Bureau, United States Department of Commerce, 17 Battery Place, New York City, furnished the following information to SA ROYAL concerning weather conditions during the period January 28, 1950 through February 1, 1950:

January 28, 1950

Cold in New York, dry, no snow; temperature high 43 degrees, low 25 degrees.

~~SECURITY INFORMATION - CONFIDENTIAL~~

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Ithaca, New York - Dry and cold; high 26 degrees, low 15 degrees (Mr. MC GUIRE stated that the same conditions would have probably prevailed along any auto route from Ithaca to New York City.)

January 29, 1950

New York City - Dry and warm; high 52 degrees, low 43 degrees.

January 30, 1950

New York City - Moderately cold; high 43 degrees, low 34 degrees.

January 31, 1950

Snow over New Jersey, New York and Pennsylvania. (Light to moderate snow). High 37 degrees, low 30 degrees in New York City.

February 1, 1950

Snow over New Jersey, New York and Pennsylvania; New York City high 37 degrees, low 29 degrees. Ithaca, New York, high 35 degrees, low 19 degrees.

- P E N D I N G -

~~SECURITY INFORMATION - CONFIDENTIAL~~

NY 65-15403

ADMINISTRATIVE

LEADS

NEWARK

At Morristown, New Jersey

Will determine whether the "Mr. DAYTON, Hotel Revere, R. 46, Morristown", who was registered at that hotel on January 19, 1950 according to the records of the Robinson Airlines, New York City, was identical with subject DAYTON and, if so, will develop fully his period of registration, modes of transportation, associates and activities during such period. (This lead was sent to Newark by letter dated September 19, 1951).

NEW YORK

*covered
see ser. 73.*

At New York, New York

The Washington Field Office has been requested to obtain copies of any expense accounts submitted by WILLIAM PERL during his employment with the National Advisory Committee for Aeronautics. New York will review any such vouchers submitted by PERL for January and February, 1950 for information indicating PERL'S whereabouts on January 29, 1950.

REFERENCE: Report of SA ROBERT F. ROYAL, 8/16/51, New York.

FEDERAL BUREAU OF INVESTIGATION

REPORT MADE AT **BOSTON**

NY FILE NO. **65-15403 JP**

REPORT MADE AT NEW YORK	DATE WHEN MADE 9/29/51	PERIOD FOR WHICH MADE 7/25, 8/9, 21, 27; 9/6, 10-14, 17-22/51	REPORT MADE BY HERMAN C. LITTLEJOHN
TITLE WELDON BRUCE DAYTON			CHARACTER OF CASE ESPIONAGE - R; PERJURY

SYNOPSIS OF FACTS:

FLOYD ELWYN, Jr., advised he definitely recalls seeing DAYTON, FINESTONE, PERL and PICKARD at 65 Morton St., NYC, on or about 1/29/50, and seeing DAYTON and PERL together at that address in either July or August, 1949. Mrs. FLOYD ELWYN, Jr. is positive she observed DAYTON, FINESTONE and PERL together in basement at 65 Morton St., on the day SARANT'S apartment was vacated by PICKARD, which has been established as 1/29/50. Miss MELISANDE CONGDON, former girl friend of PICKARD, advised her engagement calendar contained notation reflecting she spent the afternoon and evening of 1/28/50 at the Morton St. apartment with PICKARD. She said that two to four days later, PICKARD told her he and FINESTONE moved furniture from the apartment to the basement on the day following her visit. She remembers PICKARD told her that while he and FINESTONE were moving this furniture, two men called on them and it is her recollection that PICKARD did not know the complete identity of these men as FINESTONE had been vague in introducing them. However, she believes

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Julius Rosenberg Et AL.

Referral
National
Aeronautics
And Space
Administration

No. 10

Appeal to: Mr. Miles Waggoner
Freedom of Information Officer
NASA Headquarters

REFERRAL

Reviewed by: Amf / mls

Packet: 10

AGENCY: National Aeronautics and Space Administration

Subject and File Number	Serial	Date	Document Description	No. of Pages Actual Released	
Perl (HQ) 65-59312	494	8/2/51	W.F.O report to HQ	4	4
" " " "	494	8/2/51	copy of cover sheet of above	1	1
" " " "	510	8/22/51	Internal Memo Belmont to Ladd	3	3
" " " "	511	7/12/51	Internal Memo Hennrich to Belmont	2	2
" " " "	518	8/30/51	HQ Letter to NY	5	5
Perl (HQ) 65-59312	473	6/27/51	W.F.O. Teletype to HQ c.v.	1	1
" " " "	474	7/11/51	Internal Memo Hennrich to Belmont	2	2
" " " "	477	7/10/51	HQ Teletype to C.V.	1	1
" " " "	493	8/2/51	W.F.O. Letter to HQ	1	1
" " " "			" " " "		
" " " "	459	6/21/51	C.V. report to HQ w/copy of report + ENCL.	12/12/4	12/12/4
" " " "	460	5/19/51	Internal Memo Hennrich to Belmont	1	1
" " " "	NR	6/19/51	HQ Letter to NY	3	3

REFERRAL

Reviewed by: Amf (initials)

Packet: 10

AGENCY National Aeronautics and Administration

No. of Pages

Subject and File Number

Serial

Date

Document Description

Actual Released

Per (HQ) 65-59312

466

6/2/51

Internal Memo
Belmont to Ladd

2

2

" " " "

59

7/22/50

C.V. Teletype to HQ,
NY, AL, BU, PG

4

4

" " " "

70

8/22/50

C.V. Teletype to HQ
NY, BA, BS, SE

1

1

" " " "

73

8/24/50

NY Teletype to HQ,
NY, CV, PG

1

1

" " " "

NR

8/3/51

Internal Memo
Hennrich to Belmont

4

4

Per (HQ) 65-59312

452

6/15/51

National Advisory Committee
For Aeronautics Letter to
HQ

2

2

" " " "

458

6/6/51

National Advisory Committee For
Aeronautics Letter to HQ

11

11

FEDERAL BUREAU OF INVESTIGATION

Form No. 1

THIS CASE ORIGINATED AT **NEW YORK** FILE NO. **65-5543**

SECURITY INFORMATION - CONFIDENTIAL

REPORT MADE AT WASHINGTON, D. C.	DATE WHEN MADE 8/2/51	PERIOD FOR WHICH MADE 6/11, 18; 7/27/51	REPORT MADE BY ROBERT L. SMELTZER RLS:AKA
TITLE WILLIAM PERL, wa.			CHARACTER OF CASE ESPIONAGE - R, PERJURY

SYNOPSIS OF FACTS:

Document, "Effects of Boundary Layer Control on Airplane Range," made available to VON KARMAN by NACA December, 1948, not concerned with Sky Platform (Satellite Miss Project). ROBERT BELL, NACA, has no defin information [redacted] made classified AEC material available to subject. Results FBI Laboratory examination of additional handwriting specimen of PERL set forth.

APPROPRIATE AGENCIES
ADVISED BY ROUTING SLIP(S)

DETAILS: AT WASHINGTON, D. C.

According to information previously received from DAVID GREENGLASS, he had been informed by JULIUS ROSENBERG, convicted Espionage Agent, that the latter had knowledge of a secret project developed in up-state New York involving the construction of a Sky Platform described as a vehicle to be suspended in the atmosphere at a point where gravity ceases to exist.

Files of the National Advisory Committee on Aeronautics reveal that there was sent to Professor THEODORE VON KARMAN on December 29, 1948, a classified document prepared by L. E. ROOT of the Rand Corporation, entitled "Effects of Boundary Layer Control on Airplane Range."

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R 47 NOV 22 1960

APPROVED AND FORWARDED: <i>[Signature]</i>	SPECIAL AGENT IN CHARGE	DO NOT WRITE IN THESE SPACES
COPY IN FILE		65-59312-494
5-Bureau (65-59312) 1-Newark (65-4100) 3-New York (65-15387) 1-Albany (65-1673) (Info) 1-USA (SDNY) 1-San Francisco (Info) 2-Cleveland (65-2730) 2-Washington Field 1-Los Angeles (65-5075) (Info)		AUG 6 1951 RECORDED INDEXED EX-52

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SECURITY INFORMATION - CONFIDENTIAL

WFO 65-5543

Mr. EUGENE MILLER, Chief, Division of Research Information, NACA, was unable to locate a copy of the above referred to document but stated that the subject matter thereof differed entirely from that with which ROSENBERG'S statement to GREENGLASS was concerned, the latter being a Satellite Missile Project while the subject of the report by ROOT concerned the controlling of the boundary layer which was described as follows: As the wing or other exterior surface of an aircraft is passing through the air, the air molecules in the immediate vicinity are compressed forming a minute layer over the surface which causes a certain amount of friction or drag. By variations in wing and aircraft design the amount of boundary layer can be somewhat diminished with a consequent lessening of drag.

Mr. ADDISON ROTHROCK, Assistant Director for Research, (Aircraft Propulsion) National Advisory Committee for Aeronautics, further verified the fact that the subject matter of the ROOT report differed entirely from that referred to by ROSENBERG above. He further stated that the Sky Platform, or Satellite Missile Project, was still in a computational stage and that he doubted seriously that a man of the caliber of PERL would have considered as important information concerning the Sky Platform unless he were able to furnish accurate results of experimentation.

Mr. ROBERT BELL, Security Officer, NACA, advised that as a result of inquiry made by him of NACA employees at the Lewis Laboratory, Cleveland, he had been unable to verify the fact that anyone had deliberately made available to subject classified AEC information to which he was not entitled. He stated that he had been informed by confidential informant T-1, a trusted employee of the company, that the latter recalled that upon one occasion, [REDACTED] of the NACA was speaking to a third person within the hearing of the informant, and stated that [REDACTED] wants me to make a report available to PERL but I don't want to because PERL is not cleared." The informant was unable to furnish any information to BELL concerning the approximate time that [REDACTED] made the statement, which report he was referring to, or any additional details concerning this occurrence. b7c

Mr. SIDNEY L. SIMON of the NACA, advised BELL that he did not recall making the above statement attributed to him,

SECURITY INFORMATION - ~~CONFIDENTIAL~~

and that to his knowledge, [REDACTED] had never asked him or anyone else to make restricted data available to PERL. SIMON informed, however, that had PERL needed any documents or other material in conjunction with his work, [REDACTED] might well have made it available to him. This statement was based on SIMON'S knowledge of [REDACTED] great admiration and respect for PERL. SIMON also recalled that [REDACTED] had once remarked that if PERL needed any particular material for his work, he, [REDACTED], would see that he got what he needed. SIMON was unable to furnish any details or further elaborate concerning his above remarks other than to note that this latter statement of [REDACTED] had undoubtedly been made subsequent to the summer of 1949. BELL noted that from the latter part of 1948 until the summer of 1949 SIMON had not been at the Lewis Laboratory and was working instead at Oak Ridge and the Aragonne Laboratory in Chicago. b7c

There was furnished the FBI Laboratory on May 24, 1951, a letter dated April 12, 1948, with the salutation "Dear ABE" and signed "Best regards, BILL." In addition thereto, two stapled pages bearing penciled handwriting and figures captioned "ROTHROCK'S Special Project" dated August 18, 1948, and signed "W. PERL." On the basis of these additional specimens of PERL'S handwriting, the Laboratory concluded that a letter dated February 4, 1940, signed "WILLIE", a letter dated October 3, 1941, also signed "WILLIE," which were furnished by the New York Office, and a letter dated April 8, 1945, signed "HETTY" and "WILL" furnished by the Albany Office, were written by WILLIAM PERL.

Re: Pearl
Dr. HUGH L. DRYDEN, Director, NACA, Washington, D. C., or his authorized representative, is the proper party to whom a subpoena may be directed in order to testify concerning the authenticity of the two documents first referred to above.

- REFERRED UPON COMPLETION TO THE OFFICE OF ORIGIN -

SECURITY INFORMATION - ~~CONFIDENTIAL~~

WFO 65-5543

ADMINISTRATIVE PAGE

INFORMANT

T-1

NACA

who furnished the information attributed to him in the strictest confidence to Mr. BELL. 67D

Copies of this report are being sent to Los Angeles, Albany, and San Francisco for information due to their mutual interests in case.

REFERENCE:

Bureau Letter dated May 31, 1951.
Report of SA JOHN B. O'DONOGHUE dated
May 17, 1951, at Cleveland, Ohio.

FEDERAL BUREAU OF INVESTIGATION

Form No. 1

THIS CASE ORIGINATED AT

REPORT MADE AT	DATE WHEN MADE	PERIOD FOR WHICH MADE	REPORT MADE BY
TITLE			CHARACTER OF CASE

SYNOPSIS OF FACTS:

Document, "Effects of Boundary Layer Control on Airplane Wings," made available to JON BARKIN by JACA Section, 12/24/48 (not project). With My Platform (satellite missile information [redacted] has no definite and material available to subject. FBI laboratory examination of additional handwriting specimen of JON BARKIN.

b7C

- RUC -

ALAN BARKIN, R. S.

According to information previously received from DAVID GREENGLASS, he had been informed by JAMES W. HARRIS, convicted Espionage Agent, that the latter had knowledge of a secret project developed in up-state New York involving the construction of a My Platform described as a vehicle to be suspended in the atmosphere at a point where gravity ceases to exist.

Allen of the National Advisory Committee on Aeronautics reveal that there was sent to Research Engineer JON BARKIN on December 27, 1948, a classified document prepared by U. S. Navy of the Panel Corporation, entitled "Effects of Boundary Layer Control on Airplane Wings."

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Office Memorandum • UNITED STATES GOVERNMENT

TO : MR. LADD

DATE: August 22, 1951

FROM : MR. BELMONT

SUBJECT: WILLIAM PERL, aka
William Mutterperl
ESPIONAGE - R
PERJURY

Tolson _____
Ladd _____
Clegg _____
Glavin _____
Nichols _____
Rosen _____
Tracy _____
Harbo _____
Mohr _____
Tele. Room _____
Nease _____
Gandy _____

PURPOSE

[REDACTED]

To further advise that Dr. Dryden and several other officials of NACA will be in England during the first two weeks of September, 1951, at which time they would like to conduct this interview.

[REDACTED]

DETAILS

[REDACTED]

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Enclosure

EX - 74

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ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
EXCEPT WHERE SHOWN
OTHERWISE.

Classified by 4913
Exempt from GDS, Category 1
Date of Declassification Indefinite
APR 22 2-2-78

165-111

[REDACTED] b1

For your information, Lt. Col. Gregori Alexandrovich Tokaev was born in North Ossetia, Russia, on October 13, 1909. He studied at the Zhokorski Military Air Academy in Moscow between 1932 and 1937 and remained at the Academy for an additional year in order to pursue scientific work and to assume the position of head of the aerodynamics laboratory and as lecturer. In June, 1945, he was posted from the Soviet Air Force to the Air Division of the Soviet Ministry of Aircraft Production in Germany as an aviation specialist. During the period from June to August, 1945, he served as adviser on air matters to the Soviet Delegation at Potsdam. Tokaev was one of the Secretaries of the Russian element of the Allied Secretariat of the Control Council from August, 1945, to February, 1946. In February, 1946, at his own request he became Senior Assistant for Scientific Questions to the Chief of the Air Section of the Soviet Ministry of Aircraft Production. He defected from the Soviets on November 3, 1947. b1C

Subsequently, Mr. Bell of NACA advised that Dr. Hugh L. Dryden, Director of NACA, was vitally interested in this matter and has indicated a desire to have Tokaev interviewed by one of their technical aeronautical specialists with the view of obtaining certain intelligence information concerning the status of the Soviet aircraft research production as of the date of the defection of this individual. It was pointed out that on the basis of information known by Tokaev as to the laboratory and testing equipment utilized by the Russians they would be in a position to determine the exact status of the Russians in the research and development of aircraft production as compared with the production in the United States. Dr. Dryden indicated his request that if possible arrangements be made to enable such an interview by one of their officials subsequent to the time that the Bureau has completed its interview of Tokaev. b1D

~~SECRET~~

Mr. Lloyd Blankenbaker, Assistant Security Officer, advised that Dr. Dryden and a number of the officials of NACA will be in London, England, from September 3 to 14, 1951, in view of which fact they are desirous if possible of conducting the interview with Tokaev sometime during this period.

[S] 61

RECOMMENDATION

[S] 61

~~SECRET~~

Office Memorandum • UNITED STATES GOVERNMENT

TO : MR. A. H. BELMONT *AB*
 FROM : MR. C. E. HENNRICH *CH*
 SUBJECT: WILLIAM PERL, aka
 ESPIONAGE - R
 PERJURY

DATE: July 12, 1951

Tolson _____
 Ladd _____
 Clegg _____
 Glavin _____
 Nichols _____
 Rosen _____
 Tracy _____
 Harbo _____
 Mohr _____
 Tele. Room _____
 Nease _____
 Gandy _____

PURPOSE

To recommend that additional inquiry be made of AEC through Liaison with respect to the nature of information appearing in the report on the Nuclear Energy for the Propulsion of Airplanes known as the NEPA #4 Report. To also recommend that AEC be requested to furnish information as to whether copies of this report were made available to NACA, Cleveland, to the Department of the Air Force, and to Dr. Theodore Von Karman.

DETAILS

Mr. Robert Bell, Security Officer of NACA, recently advised that he had located in the files of NACA, Washington, a copy of a previous comprehensive report on the Nuclear Energy for the Propulsion of Airplanes Project, which was referred to as the NEPA #4 Report. This report was stated to contain a summary of the NEPA Project as developed as of the date May 15, 1947.

As you are aware, considerable investigation is presently being conducted on the basis of information received through David Greenglass, confessed Soviet agent, to the effect that Rosenberg made the statement that he had received the mathematics for the nuclear propulsion of airplanes. It has further been learned through Jerome Eugene Tartakow, an informant who was incarcerated in the Federal House of Detention in New York City with Rosenberg, that Rosenberg made the statement he had received information concerning nuclear propelled airplanes through Perl. The investigation to date has been unsuccessful in developing definite information as to the exact NEPA information which Rosenberg may have obtained, as well as the source of such information.

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It is believed advisable to make an appropriate inquiry through AEC to determine the following:

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FILE *Ar*

1. The exact date when the NEPA #4 Report was completed and disseminated by AEC.
2. Could the information appearing in the NEPA #4 Report be considered as "the mathematics of the NEPA Project?"
3. How many copies of the NEPA #4 Report were issued and the exact charge out system which may have been maintained by AEC concerning such reports disseminated to other agencies.
4. If appropriate charge out records were maintained, do these records indicate that a copy was furnished to NACA, Cleveland, to the Pupin Physics Laboratory, Columbia University, or to Dr. Theodore Von Karman, who was serving as an advisor to the Department of the Air Force?
5. If the charge out records do not indicate that copies were directly submitted to any of the foregoing, how many copies of the NEPA #4 Report were distributed to NACA in Washington and the Department of the Air Force?

RECOMMENDATION

It is recommended that Liaison make an appropriate inquiry along the above line of AEC for information which might be of assistance in connection with instant investigation.

SAC, NEW YORK

August 30, 1951

DIRECTOR, FBI

WILLIAM PERL, aka
William Mutterperl
ESPIONAGE - R
PERJURY
New York 65-15348

Re New York letter August 2, 1951, in the above-captioned matter relative to the information furnished by ██████████ concerning the removal of secret files from Columbia University for photographing during the week end of July 4, 1948, or 1949.

It is noted that you request an effort be made through the National Advisory Committee for Aeronautics (NACA) to obtain the original copies of the various research memoranda and reports furnished to Dr. Theodore Von Karman as listed in the report of Special Agent John P. Buscher, dated September 21, 1950, at Washington, D. C.

In accordance with your request an inquiry was made of Lloyd Blankenbaker, Assistant Security Officer, NACA, and he advised that under normal circumstances such NACA memoranda and reports are never returned to their headquarters; further, that the recipient thereof is authorized to destroy any copies of these reports which have served their purpose but that it has been requested that NACA be appropriately advised concerning the destruction of such reports so that their records can be maintained up to date.

Mr. Blankenbaker instituted a check of NACA records concerning this matter and stated that no notification has been received from Dr. Von Karman indicating the destruction of any of the reports or memoranda furnished to him. He advised that a further check would be made with respect to each individual copy thereof listed as having been sent to Dr. Von Karman to verify the fact that none of these reports were indicated as having been destroyed.

65-59312

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cc: Cleveland (65-2730)
Los Angeles
Washington Field (65-5543)

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COMM - FBI
AUG 30 1951
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61 SEP 20 1951

In view of the Bureau's present interest with respect to the possible photographing of confidential material by various members of the Rosenberg network on July 4, 1949, NACA is being requested to furnish a list of any additional classified memoranda or reports which may have been sent to Dr. Von Karman during the period from October, 1948, to July 4, 1949.

It was suggested by Mr. Blankenbaker that the Bureau might desire to directly contact Dr. Von Karman and have him voluntarily surrender the original copies of the various NACA research memoranda and reports which were made available to his office. In view of the possibility that the FBI Laboratory might destroy the memoranda or reports during the course of the examination thereof NACA has agreed to replace any of these memoranda and reports in the event Dr. Von Karman requests their return. Mr. Blankenbaker stated, however, that in the event Dr. Von Karman refuses to cooperate in turning over these reports NACA will immediately recall all of these memoranda and reports from Dr. Von Karman's office. He noted that NACA continues its ownership of such documents and has a right to recall them at any time.

The New York Division is requested to make an immediate effort to determine the present location of these research memoranda and reports, as well as the identity of the person in whose custody and possession they are presently located. It is presumed, however, that same are still in the possession of Dr. Von Karman and possibly maintained in his office at the Pupin Physics Laboratory, Columbia University. In the event the latter is found to be true an immediate contact should be had with Dr. Von Karman concerning this matter and his cooperation requested in making all of the pertinent NACA memoranda and reports available for examination by the FBI Laboratory. In accordance with the aforementioned information received from NACA he can be assured that any of these documents which are destroyed during the course of the Laboratory examination will be replaced by NACA upon his indicating that he desires to retain a copy thereof.

In connection with the obtaining of the aforementioned NACA reports you should make an effort to account for every one of the reports, particularly those of a classified nature which are not presently located in the possession of Dr. Von Karman. This is considered as being of importance on the basis of the information received from Soviet defector Gregori A. Tokaev to the effect that he had seen actual NACA reports in the possession of the Soviet Ministry of Aircraft Production.

With respect to your request that the Bureau similarly obtain all copies of the "Lexington Report" and the Appendix to Chapter III of the report it is noted that according to NACA headquarters all of the following indicated copies of this report with one exception are still in the possession of NACA's Lewis Flight Propulsion Laboratory in Cleveland, Ohio:

"Lexington Report," Copy B7-A, furnished NACA, Cleveland,
October 11, 1948

"Lexington Report," Copy 88-A, furnished NACA, Cleveland,
November 4, 1948

Appendix to Chapter III ("Lexington" PIA), furnished NACA,
Cleveland, December 27, 1948

"Lexington Report," Copy 32-B, furnished NACA, Cleveland,
by Oak Ridge January 18, 1949

"Lexington Report," Copy 89-A, furnished NACA, Cleveland,
February 17, 1949

"Lexington Report," Copy 74-B, furnished NACA, Cleveland,
April 5, 1949

As you may recall, Copy 88-A of this report was returned to the Atomic Energy Commission in May, 1949, and was replaced by Copy 74-B; further, Copy 88-A has previously been examined by the FBI Laboratory and it was concluded that there was no indication that any pages thereof had been removed subsequent to the time same was originally bound. No latent fingerprint examination, however, was afforded this document at the time of the Laboratory examination.

In analyzing your suggestion as to obtaining all copies of the "Lexington Report" and the Appendix to Chapter III which might have been available to Perl at the NACA Laboratory, Cleveland, during the pertinent period, it is pointed out that from the time element it would have been impossible for Perl to have had access to any of these copies for photographing on the July 4, 1948, week end. It is more likely that if any nuclear energy for the propulsion of aircraft (NEPA) information was photographed on that date the NEPA No. 4 technical report may have been used. Additional information concerning the latter report is being furnished to your office by separate letter.

However, it is conceded that if this photographing actually took place on the July 4, 1949, week end the possibility of the "Lexington Report" being part of the material photographed cannot be overlooked. If this were so it would have been necessary for Perl not only to have had access to a copy of this report, which has not been established to date, but also to have removed this report from the NACA Laboratory, Cleveland, Ohio, and to have taken it to New York City for that July 4 week end.

It would appear more likely that if the "Lexington Report" were photographed on the July 4, 1949, week end Perl may have had access to another copy of this report either through the Pupin Physics Laboratory, Columbia University, or through some scientist at that University who may have had a connection with the NEPA Project. To this end the New York Division is requested to conduct a thorough investigation for the purpose of determining whether any copy of the "Lexington Report" or the Appendix to Chapter III was in the possession of either the Pupin Physics Laboratory or any of the nuclear scientists then associated with that Laboratory. It should be ascertained whether any of these scientists at Columbia University may have participated in the NEPA Project so that further check can be made as to the possible availability of the "Lexington Report" to such individuals during the pertinent period. It is further suggested that the charge out records of the Atomic Energy Commission's classified library in New York City should also be checked for information along this line.

At the time of the interview with Dr. Von Karman with the view of obtaining possession of the various NACA research memoranda and reports as previously set forth in this letter he should be questioned as to his knowledge concerning the "Lexington Report" and the Appendix to Chapter III of that report. It should be specifically ascertained whether he may have had in his possession at the Pupin Physics Laboratory any copy or copies of this report during the pertinent July 4, 1949, week end period.

The Cleveland Division is requested to immediately recheck the records of NACA, Cleveland, and advise as to the identity of the person to whom each of the available copies of the "Lexington Report" and the Appendix to Chapter III was charged out as of July 4, 1949. Thereafter in the event same appears advisable such persons should be interviewed for the specific purpose of determining the possibility of the report having been surreptitiously or otherwise obtained by Perl during this week-end period.

Upon completion of the above-requested investigation the Bureau will give further consideration to the matter of obtaining the aforementioned copies of the "Lexington Report" and the Appendix to Chapter III for a thorough laboratory examination. It is pointed out that in the event such action is deemed advisable it will be necessary to have the copies presently in the possession of the NACA Laboratory, Cleveland, recalled and replaced with additional copies.

A copy of this communication is being directed to the Los Angeles Division for their information and assistance in the event it is determined that Dr. Von Karman is presently located in Los Angeles rather than New York.

This matter should be given immediate attention.

Mr. Tolson	
Mr. Ladd	
Mr. Clegg	
Mr. Glavin	
Mr. Nichols	
Mr. Rosen	
Mr. Tracy	
Mr. Harbo	
Mr. J. Edgar	
Mr. Belmont	
Mr. Mohr	
Tele. Room	
Mr. Nease	
Miss Gandy	

THIS

FBI WASH FIELD

6-27-51

2:15

DIRECTOR AND SAC CLEVELAND

U R G E N T

WILLIAM PERL, AKA ESP DASH R, PERJURY. REBULET JUNE
FOURTEEN. [ROBERT BELL, NACA ADVISES CUSTOMARY FOR HIGH
RANKING RESEARCH MEN AT NACA TO INTERVIEW PROMISING
GRADUATES OF COLLEGES FOR RECRUITMENT FOR POSSIBLE EMPLOYMENT
AND THAT PERL HAD IN PAST CONDUCTED SUCH INTERVIEWS. BELL
BELIEVES THIS OSTENSIBLY REASON FOR SUBJECTS RECRUITING

[REDACTED] CLEVELAND REVIEW [REDACTED] FILE NACA
CLEVELAND AS PER REBULET.

b7c

Stein
STEIN

RLS:PJP

65-5543

CC-NEW YORK (65-15381)

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R 47 NOV 22 1950

RECORDED - 51
EX-81

JUN 30 1951

HANDLED BY
STON/DESK

76 JUL 12 1951

65-59312-473

Encl 16

cc - Mr. [Signature]

Office Memorandum • UNITED STATES GOVERNMENT

TO : MR. BELMONT

FROM : MR. HENNRICH

SUBJECT: WILLIAM PERL, aka
ESPIONAGE - R
PERJURY

DATE: July 11, 1951

Tolson ☒
Ladd ☒
Clegg ☒
Glavin ☒
Nichols ☒
Rosen ☒
Tracy ☒
Harbo ☒
Belmont ☒
Mohr ☒
Tele. Room ☒
Nease ☒
Gandy ☒

PURPOSE

*And what is?
the m a c a?*

To advise that Robert Bell, Chief Security Officer of NACA, telephonically communicated with Supervisor E. F. Emrich today and indicated he had learned that Major Sergei Y. Ivanov, Assistant Air Attache of the Russian Embassy, made inquiry several days ago relative to three confidential reports, the titles of which were confidential and thus could only have been ascertained through access to a similarly confidential and restricted report issued within the past year.

To further advise that Mr. Bell is presently making an additional check of the records of NACA and will furnish complete details concerning this matter in the immediate future.

DETAILS

*reply 7-13-51
yl*

Robert Bell, Chief Security Officer of NACA, telephonically advised Special Agent E. F. Emrich in connection with the above-entitled matter that he had received information which indicated the possibility that the Russians have obtained within the past year another of their confidential reports in an aircraft matter. He stated that according to his information Major Sergei Y. Ivanov, Assistant Air Attache of the Russian Embassy, Washington, D. C., appeared at the Library of Congress three days ago and made inquiry concerning the possibility of his obtaining three confidential reports concerning aeronautical matters. According to Mr. Bell, NACA has been cognizant of the fact that the Russians, over a period of time, have been obtaining numerous unclassified and non-confidential reports on aeronautical matters through the Library of Congress, these reports being borrowed for a week or ten days, which, in his opinion, indicates they were merely being borrowed for copying purposes.

With regard to Major Ivanov's recent inquiry concerning the three confidential reports, Mr. Bell stated that the names of these reports themselves were considered as con-

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Confidential and could only have been secured by the Russians through access to a confidential and classified report issued by the NACA Laboratory in Cleveland where the report was prepared. He mentioned that this report has only been out approximately one year and therefore the Russians must have received this information from the report during the past year.

It might be noted in this respect that subject Perl, who is suspected of having made available to the Russians numerous reports containing confidential information concerning aeronautical matters, was in the employ of NACA's Laboratory in Cleveland up until September, 1950.

Mr. Bell stated he has not been able to check all the necessary details at the present time but is doing so and will contact Supervisor Emrich within the next few days and furnish the complete details concerning the matter.

ACTION

None. For your information.

✓ SK
JEF

July 10, 1951

S/C CLEVELAND

URGENT

WILLIAM PERL, AKA, ESP R, PERJURY.

ROBERT BELL, CHIEF OF SECURITY, NACA, ADVISED [REDACTED]

[REDACTED] CLEVELAND,

SUBJECT RECENT BUREAU LOYALTY INVESTIGATION, URFILE ONE TWENTY-ONE DASH ONE TWO NINE FIVE, WORKED AS SECRETARY TO [REDACTED]

[REDACTED] AND MAY HAVE HAD ACCESS LEXINGTON REPORT. MR. BRACY, SECURITY OFFICER, NACA, CLEVELAND, COGNIZANT ABOVE AND CHECKING RECORDS CONCERNING [REDACTED] EMPLOYMENT. BELL INDICATED LIKELIHOOD

[REDACTED] EARLY RELEASE FROM NACA AS SECURITY RISK. YOUR OFFICE REQUESTED IMMEDIATELY INTERVIEW IRVA LEVINE RE HER ACCESS TO LEXINGTON REPORT AND WHETHER SAME MADE AVAILABLE BY HER TO HER HUSBAND, PERL OR ANY OTHER EMPLOYEES, NACA, CLEVELAND. MAKE EVERY EFFORT HANDLE THIS INTERVIEW PRIOR LEVINE'S RELEASE FROM NACA.

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Office Memorandum • UNITED STATES GOVERNMENT

TO: DIRECTOR, FBI

DATE: August 2, 1951

FROM: SAC, WFO

SUBJECT: WILLIAM PERL, wa.
ESPIONAGE - R, PERJURY

Page 7 of the report of Special Agent JOHN B. O'DONOGHUE dated May 17, 1951, Cleveland, refers to a memorandum written by PERL which might have indicated that the latter had knowledge of classified information contained in the Lexington report.

Mr. ROBERT BELL, Security Officer, NACA, advised that the document to which he had originally referred in this connection, was a memorandum dated August 18, 1948, signed "W. PERL," the subject matter of which was "drag of a long yawed cylinder," which document has been furnished the Bureau by the WFO. BELL stated that he has since been advised by Mr. ADDISON ROTHROCK, NACA, that the preparation of such a memorandum by PERL would not have necessitated any knowledge on his part of the Lexington project. His computations as reflected in the memorandum might well have been done upon specific instructions of [REDACTED] or someone else at the Lewis Laboratory, and could have been based upon a minimum number of facts being given him which in no way would compromise information about the Lexington project.

Rebulet dated June 14, 1951, and WFO Teletype dated June 27, 1951, Mr. LLOYD BLANKENBAKER, Assistant Security Officer, NACA, made available a letter from H. B. BRACY, Security Officer, Lewis Laboratory, Cleveland, dated June 26, 1951, in which he set forth information concerning the "recruiting trip to Columbia University of PERL February 2 to 4, 1950." It was noted that he talked to [REDACTED] who had been in the Lewis Laboratory July to September, 1948, and [REDACTED] who worked in the Laboratory during the same period. Both of the latter individuals had resigned to return to Columbia University and the letter states that apparently PERL attempted to interest them in re-employment with the Laboratory. BRACY'S letter listed the names of persons interviewed by PERL. It is requested that the Cleveland Office discuss with BRACY the above referred to letter in an attempt to ascertain the names of individuals who actually received employment with the NACA as a result of PERL'S interviews at Columbia University, and will thereafter request the New York Office to furnish any pertinent security information concerning these individuals.

RLS:AKA

WFO 65-5543

cc Cleveland (65-2730)
cc New York (65-15387)HANDLED BY
ST. [REDACTED]

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FEDERAL BUREAU OF INVESTIGATION

FORM NO. 1;
THIS CASE ORIGINATED AT

NEW YORK

FILE NO. 65-2730

REPORT MADE AT CLEVELAND	DATE WHEN MADE 6-21-51	PERIOD FOR WHICH MADE 6/6-9, 11-15/51	REPORT MADE BY FREDERICK L. EDWARDS cgp
TITLE WILLIAM PERL, aka. William Mutterperl			CHARACTER OF CASE ESPIONAGE - R, PERJURY

SYNOPSIS OF FACTS:

Check at Regent Hotel and other logical Cleveland hotels regarding registration for JULIUS ROSENBERG from 12/44 through 2/45 negative. Address 11703 Madison Avenue non-existent. Records East Ohio Gas Company indicate PERL resided 16808 Madison Avenue, Suite #3, 1/4/44 to 11/2/44; 2744 Mayfield Road, Suite #2, 11/2/44 to 11/6/44; and 1516 E. 120th Street, Suite #6, 11/6/44 to 2/12/45. Attempts to obtain rental records from owner or rental agencies of 2744 Mayfield Road and 1516 E. 120th Street unproductive. Rental records for 16808 Madison Avenue obtained but require interpolation. Contents of PERL'S papers ["Some Effects of Compressibility of the Flow through Fans and Turbines" and "A General Representation of Axial Flow Fans and Turbines" discussed with JESSE HALL, N.A.C.A., Cleveland, who advised such papers had no relationship whatsoever with the J-31 or I-16 jet engine.]

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 - 1 - San Francisco (Info.)
 - 1 - Washington Field (65-5543) (Info.)
 - 4 - Cleveland (1 - 65-2726)
-

CV F.O.
65-2730

Details:

AT CLEVELAND, OHIO

RESULTS OF HOTEL CHECK FOR REGISTRATION OF
JULIUS ROSENBERG

The following investigation was conducted by SA RICHARD F. BATES:

C. R. PORTSER, Manager, New Amsterdam Hotel, 2142 Euclid Avenue; JACK CHILDERS, Manager, Fenway Hall Hotel, 1986 East 107th Street; ANTON WEBBER, Accountant, Colonial Hotel, 523 Prospect Avenue; and STANLEY WEISS, Manager, St. Regis Hotel, 8205 Euclid Avenue, all made available the registration records of the aforementioned hotels. An examination of these records reflected no registration record for JULIUS ROSENBERG at these hotels during December, 1944, or January and February, 1945.

The following hotel managers of the herein below listed hotels were contacted and they advised that the registration records of their hotels for 1944 and 1945 had been destroyed:

JAMES A. LADU, Carter Hotel, Prospect and East 9th Street.

MAX E. ZUCKER, Sterling Hotel, Prospect and East 30th Street.

A. H. SCHAFFNER, Haddam Hotel, 10510 Euclid Avenue.

WALTER McNABB, Knickerbocker Hotel, 8308 Euclid Avenue.

A. BARON, Bolton Square Hotel, 8907 Carnegie Avenue.

KATHLEEN REED, Regent Hotel, 10539 Euclid Avenue.

G. T. GOLDING, Executive Assistant Manager, Hotel Allerton, 1802 East 13th Street, advised that the United States Navy occupied the Allerton Hotel Building in 1944 and 1945.

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The following investigation was conducted by SA MEREDITH F. MILLER:

The following hotel managers of the herein below listed hotels advised that their records for the years 1944 and 1945 had been destroyed:

JOSEPH P. MCGOVERN, Westlake Hotel, 19030
Westlake Road.

G. MOFFETT, Lakeshore Hotel, 12506 Edgewater
Drive.

G. V. THOMPSON, Auditorium Hotel, 1315 East
6th Street.

W. G. SHELLEY, Olmsted Hotel, Superior and
East 9th Street.

ROBERT W. JANSEN, Hollenden Hotel, 610 Superior
Avenue.

L. E. PIERCE, Cleveland Hotel, Public Square
and Superior Avenue.

WILLIAM J. McSOLEY, Manager, Statler Hotel, Euclid and East 13th
Street, advised after a search of the hotel's guest records for December, 1944,
and January and February, 1945, that no identifiable hotel registration was
located for JULIUS ROSENBERG.

RESULTS OF INVESTIGATION TO VERIFY RESIDENCES
OF PERL IN 1944

The following investigation was conducted by the writer:

11703 Madison Avenue

It was determined through investigation that the above address is
non-existent and that the premises 11709 Madison Avenue are occupied by the
National Carbon Division of the Union Carbide and Chemical Corporation and
were occupied as such during 1943 and 1944. The aforementioned company's
property extends from 11709 Madison Avenue to 11900 Madison Avenue.

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16808 Madison Avenue

Mrs. LILLIE R. REAGAN, 1331 Phelps Avenue, Lakewood, Ohio, landlord of the apartment unit at the above address, located two ledger sheets containing the name W. MUTTERPERL as occupying Suite #3. These ledger sheets were obtained from Mrs. REAGAN for photostating and the originals have been returned to her. Copies of these photostats are being enclosed for the Bureau, the New York Office and for the United States Attorney, Southern District of New York, with their copies of this report and for clarification purposes will be referred to hereinafter as Exhibit No. 1 and Exhibit No. 2. Mrs. REAGAN after examination of these records stated that she could not conclusively state from her records the dates during which MUTTERPERL occupied Suite #3 although she would assume from the interpretation of them that he moved into Suite #3 in January, 1944, and vacated the apartment in November, 1944.

A perusal of Exhibit No. 1 indicated the names of MIDDLETON, LEE CORDREY, MULLEN and W. MUTTERPERL and the notation #3 listed in the upper right-hand corner. Further, in the right-hand ledger column under the date 1940 no rent payments are noted after June 1. This, according to Mrs. REAGAN, could possibly be the time MIDDLETON vacated because, as can be noted, the name of MIDDLETON is crossed out in the upper right-hand corner of the ledger sheet. Under the year 1943 it will be noted that in the entry March 12 only \$18 is entered and again, according to Mrs. REAGAN, this could possibly denote the time at which LEE CORDREY vacated the suite. After the entry December 1, 1943, in which \$45 is entered and which is underlined, it will be noted that the notation, deposit January 1 - \$10, is next entered immediately below the foregoing entry. Mrs. REAGAN advised that it is probable that MULLEN'S residency was terminated on December 31, 1943, and that the deposit of \$10 on January 1, 1944, related to W. MUTTERPERL inasmuch as his name is listed above MULLEN'S in the upper right-hand corner of the ledger sheet.

An examination of Exhibit No. 2 reflects the names of W. MUTTERPERL, RANNY, BRANDT (all of which are crossed out) and WATTS, together with the notation #3. In the ledger column on the right-hand side of the ledger sheet it will also be noted there is the notation "Think this is MUTTERPERL." Further examination of the figures in the right-hand column of the ledger sheet it will be noted that the payment of \$40 on October 1, 1944, is the last entry for that year. Mrs. REAGAN stated that in all probability these rental payments were those of MUTTERPERL and that he vacated the suite in November, 1944.

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Mrs. REAGAN advised that a further review of her records indicates that in December, 1944, purchases in the amount of \$6.08 for window shades and \$23.34 for "Textolite" (paint) were made for Suite #3. This latter purchase, according to Mrs. REAGAN, would almost preclude the possibility that MUTTERPERL renovated the apartment during the time that he was in there. She continued by stating that she did not recall the reason for MUTTERPERL'S leaving and stated she did not know whether he was married or single at the time he left. She did state, however, that he was single when he rented the apartment but inasmuch as she had no contact with him during the time that he resided in the apartment she stated she was in no position to furnish any information concerning him. She advised that Suite #3 was sufficiently large enough for two people in the event he did get married subsequent to the time of his original rental and, hence, she doubted that MUTTERPERL moved because of crowded conditions in the apartment.

Dr. H. L. REAGAN, 11720 Lorain Avenue, husband of Mrs. REAGAN, was interviewed at his office concerning any knowledge he might possess relative to MUTTERPERL. He stated that he could not recall the dates during which MUTTERPERL occupied Suite #3 in the apartment building nor was he able to offer any explanation for MUTTERPERL'S vacating the suite which he might have advanced. Dr. REAGAN advised that for record purposes he is carried as the owner of the apartment building and his wife is listed as landlord inasmuch as she keeps the records. He stated that he has very little contact with the tenants in the building and, hence, was unable to furnish any information concerning MUTTERPERL.

The records of the Cleveland Area Rent Office, Room 800, 2108 Payne Avenue, for the house accommodation at 16808 Madison Avenue as produced by JOHN HAVLACH, Supervising Rent Examiner, reflected a report of change in tenancy from the former tenant MULLEN to the new tenant WILLIAM MUTTERPERL on January 1, 1944. Photostatic copies of this original form were obtained and are being enclosed for the Bureau, New York and the United States Attorney, Southern District of New York, with their copies of this report. Again for clarification purposes these latter photostatic copies will be designated as Exhibit No. 3.

An examination of Exhibit No. 3 will indicate that WILLIAM MUTTERPERL was to have been a tenant at 16808 Madison Avenue on January 1, 1944, in the housing accommodation formerly held by MULLEN and that this form will further reflect that WILLIAM MUTTERPERL signed this form on February 24, 1944.

Mr. HAVLACH advised that a review of the records maintained at the Area Rent Office for the building at 16808 Madison Avenue contained no further information relating to Suite #3 or to WILLIAM MUTTERPERL. He added that landlords had the responsibility of submitting forms to his office when apartments were vacated and the names of tenants changed; however, he stated that a great number of them failed to comply with the rent control orders.

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Mr. HAVLACH stated that in the event the above records which are in their possession pertaining to Suite #3 at 16808 Madison Avenue and as concerns WILLIAM MUTTERPERL should be needed as evidence, subpoenas should be directed to either Mr. FRANK WEISER, 2577 Overlook Road, Cleveland Heights, Ohio, or Miss RAE SPECTOR, 1632 Coventry Road, Cleveland Heights, Ohio, both of whom are attorneys for the Cleveland Area Rent Office. Mr. HAVLACH stated that either of the aforementioned individuals could properly introduce the records of the Cleveland Area Rent Office.

THOMAS McNAMEE, Customer Service Department, East Ohio Gas Company, 1405 East 6th Street, advised from the records of that company that service was rendered to WILLIAM MUTTERPERL, Suite #3, 16808 Madison Avenue, from January 4, 1944, to November 2, 1944.

Mr. McNAMEE advised that in the event such records are needed for court testimony a subpoena duces tecum should be directed to the East Ohio Gas Company, 1405 East 6th Street, who in turn would delegate the proper official to introduce the records in court.

2744 Mayfield Road

It will be noted in the report of SA JOHN B. O'DONOGHUE dated March 27, 1951, at Cleveland in instant matter that bank statements of the Cleveland Trust Company for the months of November and December, 1944, and January, 1945, indicated that PERL had received statements at 2744 or 3744 Mayfield Road.

It should also be noted that investigation revealed that the address 3744 Mayfield Road was a vacant lot.

HARRY ROGIN, owner of the apartment building at 2744 Mayfield Road, advised that he recalled a MUTTERPERL, whom he believed to be identical with a photograph of PERL, as having resided in his apartment building sometime during the war.

Mr. ROGIN upon contact by the writer advised that he had previously made an attempt to locate some evidence which would indicate the length of residence for PERL in his apartment building but that the results of such an attempt were unsuccessful. ROGIN stated that to the best of his knowledge PERL was a tenant of his, at best, for only a week or two weeks and that he had requested PERL to move. He stated he recalled that PERL brought in a great number of boxes, among which were several boxes of electrical apparatus and wires and PERL on occasions was known by him to be working with such apparatus as early as 2:00 and 3:00 a.m. ROGIN stated that he became afraid of PERL'S motives and requested him to leave.

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JOHN HAVLACH, Supervising Rent Examiner, Cleveland Area Rent Office, produced the records for the apartment building at 2744 Mayfield Road, and after an examination of these records advised that he could locate no information which would indicate that WILLIAM MUTTERPERL or PERL was mentioned at this residence.

Mr. WILLIAM BRAUCHER, Customer Service Department, East Ohio Gas Company, 1405 East 6th Street, advised from the records of that company that service was rendered to WILLIAM MUTTERPERL, Suite #2, 2744 Mayfield Road, from November 2, 1944, until November 6, 1944. BRAUCHER stated that the records further reflected a change of address for WILLIAM MUTTERPERL from 2744 Mayfield Road to Upper of 1516 East 120th Street. It will be noted that the information concerning the subpoena of these records is listed in connection with the contact of THOMAS McNAMEE of the East Ohio Gas Company.

1516 East 120th Street

It was ascertained from MAX KONETSKI, 7519 Superior Avenue, who is the former custodian of the apartment building at the above address, that the rental management of this building for the latter part of 1944 and for the year 1945 was handled by the A. D. Frazer Company, Room 610, National City Bank Building. KONETSKI stated that he terminated his services at the apartment building in July, 1944, and that PERL was not a tenant at that time.

WILLIAM GROVES, Sales and Lease Department, A. D. Frazer Company, advised that they formerly handled the rental for the apartment building at 1516 East 120th Street. He stated that actually the address of the apartment is 11912 Ashbury Avenue and that the address 1516 East 120th Street is a rear part of the building containing two suites. He advised that all records pertaining to the apartment building have been destroyed by the company inasmuch as they are in the process of moving and that at their new location they would not have the storage space to keep all of their old records. GROVES added that he recalled the rental arrangements with the apartment building but advised that he did not recall the name of WILLIAM MUTTERPERL or WILLIAM PERL.

JOHN HAVLACH, Supervising Rent Examiner, Cleveland Area Rent Office, advised after a review of the records of that agency pertaining to the apartment building at 11912 Ashbury Avenue that such record contained no information relative to WILLIAM MUTTERPERL or WILLIAM PERL.

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WILLIAM BRAUCHER, Customer Service Department, East Ohio Gas Company, advised from the records of that company that service was rendered to WILLIAM MUTTERPERL at 1516 East 120th Street, Suite #6, from November 6, 1944, to February 12, 1946. BRAUCHER advised that these records indicate that on January 23, 1945, PERL advised the company to bill him under the name of WILLIAM PERL rather than WILLIAM MUTTERPERL. BRAUCHER advised that the records show no forwarding address listed for PERL.

The information pertaining to the subpoena of the records of the East Ohio Gas Company has previously been set forth.

CONTACT AT N.A.C.A. RELATING TO PERL'S
PAPERS AND THE J-31 OR I-16
JET ENGINE

JESSE HALL, Assistant Chief of Research, N.A.C.A., was contacted and accordingly copies of the papers prepared by PERL entitled "Some Effects of Compressibility of the Flow Through Fans and Turbines" and "A General Representation of Axial Flow Fans and Turbines" were obtained for examination and discussion. In this respect, HALL advised that the contents of the aforementioned papers were highly theoretical in content and no relationship whatsoever existed between the content material and the J-31 or I-16 Westinghouse jet engine.

HALL explained that PERL'S paper "Some Effects of Compressibility of the Flow through Fans and Turbines" was an examination conducted to get compressibility effects on the flow through compressors and turbines in order to get some idea of these effects and at what Mach numbers these effects become important. HALL defined a Mach number as the ratio of the speed of the plane to the speed of sound.

In regard to PERL'S paper "A Representation of Axial Flow Fans and Turbines," HALL advised that the paper recommended several unconventional arrangements of fans and turbines in jet engines. HALL pointed out that the arrangement of the fans and turbines in the J-31 and I-16 jet engine was conventional.

In reference to Item No. 6 pertaining to the air compression engine, HALL said that such a statement as "tangential direction" made no sense to him inasmuch as such a term is never referred to in aeronautical technical language. He stated that directions are always described as either axial or radial (centrifugal).

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MISCELLANEOUS

Mrs. GORDON OSTERSTROM, 3529 East Scarsborough Road, Cleveland Heights, Ohio, advised that they moved into the apartment vacated by PERL at 1516 East 120th Street immediately after PERL had left. She stated that to the best of her knowledge PERL moved out in February, 1946, and that they then immediately moved in. She described the apartment as somewhat of a mess at that time, stating that the wallpaper was hanging in shreds in the dining room, living room and bedroom. She added that PERL'S wife had "kemptoned" the kitchen a red and salmon pink and that the kitchen was in such a mess that it was necessary to repaint it after they had occupied the apartment for a short time. She also advised that it was necessary for them to also paper the dining room and one bedroom because of the condition of the wallpaper. She added that PERL had told them at the time he vacated the apartment that he was going to California to pursue further study.

Mr. and Mrs. GEORGE RANKER, 14899 Detroit Avenue, advised upon interview that they were formerly the custodians of this apartment building at 16808 Madison Avenue and that they vaguely recalled a WILLIAM MUTTERPERL as a tenant in Suite #3. They stated that to the best of their knowledge MUTTERPERL moved into Suite #3 early in 1944 and that he was still residing there at the time they terminated their services as custodians in approximately July, 1944.

Mrs. RANKER stated that at one time she recalls discussing the re-decoration of the apartment with PERL but that during the time he was there he accomplished nothing in this regard at all. She further stated that PERL was single at the time he moved in there and he was still single when they left. She advised that after cleaning the suite prior to the time PERL moved in she never went back into the suite again.

Both Mr. and Mrs. RANKER advised that during the time that they recalled PERL as a tenant they never noticed any visitors coming to his suite nor did they observe anything out of the ordinary concerning PERL. They advised that during the time they were custodians of the apartment building they maintained a receipt book but at the time they left they inquired of Dr. REAGAN as to whether he desired the receipt book and, according to them, he advised them to destroy it. They added that to the best of their knowledge when they vacated the apartment they left the receipt book along with some other trash in their suite. They advised that Mrs. CHARLES R. WEBER assumed their jobs and stated that after she was there for a little while she went to California and that they did not know whether or not she had returned. They stated that she was married to a serviceman at that time and that they had also heard that she had obtained a divorce.

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Dr. and Mrs. H. L. REAGAN were contacted relative to any knowledge they might possess concerning Mrs. CHARLES R. WEBER and they advised that after she assumed the position of custodian of their apartment building she went to California and when she returned they fired her. They stated that Mrs. WEBER later received a divorce but that they did not know any circumstances surrounding it nor were they able to advance any information concerning Mrs. WEBER'S maiden name. They further advised that they had no information whatsoever concerning the present whereabouts of Mrs. WEBER.

ENCLOSURES TO BUREAU, NEW YORK AND UNITED STATES ATTORNEY, SOUTHERN DISTRICT OF NEW YORK:

Photostatic copies of ledger sheets of Mrs. LILLIE R. REAGAN, Exhibit No. 1 and Exhibit No. 2, to each.

Photostatic copy of O.P.A. Form D-25, Exhibit No. 3, to each.

- P E N D I N G -

CV F.O.
65-2730

LEADS

No leads are being set forth in this report since all leads are being designated by teletype and letter.

Reference: Bureau letter to New York 5/31/51.

FEDERAL BUREAU OF INVESTIGATION

FORM NO. 1
THIS CASE ORIGINATED AT

NEW YORK

FILE NO. 65-2730

REPORT MADE AT CLEVELAND	DATE WHEN MADE 6-21-51	PERIOD FOR WHICH MADE 6/6-9, 11-15/51	REPORT MADE BY FREDERICK L. EDWARDS cgp
TITLE WILLIAM PERL, aka. William Mutterperl			CHARACTER OF CASE ESPIONAGE - R, PERJURY

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65-2730

Details:

AT CLEVELAND, OHIO

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A. H. SCHAFFNER, Haddam Hotel, 10510 Euclid Avenue.

WALTER McNABB, Knickerbocker Hotel, 8308 Euclid Avenue.

A. BARON, Bolton Square Hotel, 8907 Carnegie Avenue.

KATHLEEN REED, Regent Hotel, 10539 Euclid Avenue.

G. T. GOLDING, Executive Assistant Manager, Hotel Allerton, 1802 East 13th Street, advised that the United States Navy occupied the Allerton Hotel Building in 1944 and 1945.

The following investigation was conducted by SA MEREDITH F. MILLER:

The following hotel managers of the herein below listed hotels advised that their records for the years 1944 and 1945 had been destroyed:

JOSEPH P. McGOVERN, Westlake Hotel, 19030
Westlake Road.

G. MOFFETT, Lakeshore Hotel, 12506 Edgewater
Drive.

G. V. THOMPSON, Auditorium Hotel, 1315 East
6th Street.

W. G. SHELLEY, Olmsted Hotel, Superior and
East 9th Street.

ROBERT W. JANSEN, Hollenden Hotel, 610 Superior
Avenue.

L. E. PIERCE, Cleveland Hotel, Public Square
and Superior Avenue.

WILLIAM J. McSOLEY, Manager, Statler Hotel, Euclid and East 13th
Street, advised after a search of the hotel's guest records for December, 1944,
and January and February, 1945, that no identifiable hotel registration was
located for JULIUS ROSENBERG.

RESULTS OF INVESTIGATION TO VERIFY RESIDENCES
OF PERL IN 1944

The following investigation was conducted by the writer:

11703 Madison Avenue

It was determined through investigation that the above address is
non-existent and that the premises 11709 Madison Avenue are occupied by the
National Carbon Division of the Union Carbide and Chemical Corporation and
were occupied as such during 1943 and 1944. The aforementioned company's
property extends from 11709 Madison Avenue to 11900 Madison Avenue.

16808 Madison Avenue

Mrs. LILLIE R. REAGAN, 1331 Phelps Avenue, Lakewood, Ohio, landlord of the apartment unit at the above address, located two ledger sheets containing the name W. MUTTERPERL as occupying Suite #3. These ledger sheets were obtained from Mrs. REAGAN for photostating and the originals have been returned to her. Copies of these photostats are being enclosed for the Bureau, the New York Office and for the United States Attorney, Southern District of New York, with their copies of this report and for clarification purposes will be referred to hereinafter as Exhibit No. 1 and Exhibit No. 2. Mrs. REAGAN after examination of these records stated that she could not conclusively state from her records the dates during which MUTTERPERL occupied Suite #3 although she would assume from the interpretation of them that he moved into Suite #3 in January, 1944, and vacated the apartment in November, 1944.

A perusal of Exhibit No. 1 indicated the names of MIDDLETON, LEE CORDREY, MULLEN and W. MUTTERPERL and the notation #3 listed in the upper right-hand corner. Further, in the right-hand ledger column under the date 1940 no rent payments are noted after June 1. This, according to Mrs. REAGAN, could possibly be the time MIDDLETON vacated because, as can be noted, the name of MIDDLETON is crossed out in the upper right-hand corner of the ledger sheet. Under the year 1943 it will be noted that in the entry March 12 only \$18 is entered and again, according to Mrs. REAGAN, this could possibly denote the time at which LEE CORDREY vacated the suite. After the entry December 1, 1943, in which \$45 is entered and which is underlined, it will be noted that the notation, deposit January 1 - \$10, is next entered immediately below the foregoing entry. Mrs. REAGAN advised that it is probable that MULLEN'S residency was terminated on December 31, 1943, and that the deposit of \$10 on January 1, 1944, related to W. MUTTERPERL inasmuch as his name is listed above MULLEN'S in the upper right-hand corner of the ledger sheet.

An examination of Exhibit No. 2 reflects the names of W. MUTTERPERL, RANNEY, BRANDT (all of which are crossed out) and WATTS, together with the notation #3. In the ledger column on the right-hand side of the ledger sheet it will also be noted there is the notation "Think this is MUTTERPERL." Further examination of the figures in the right-hand column of the ledger sheet it will be noted that the payment of \$40 on October 1, 1944, is the last entry for that year. Mrs. REAGAN stated that in all probability these rental payments were those of MUTTERPERL and that he vacated the suite in November, 1944.

Mrs. REAGAN advised that a further review of her records indicates that in December, 1944, purchases in the amount of \$6.08 for window shades and \$23.34 for "Textolite" (paint) were made for Suite #3. This latter purchase, according to Mrs. REAGAN, would almost preclude the possibility that MUTTERPERL renovated the apartment during the time that he was in there. She continued by stating that she did not recall the reason for MUTTERPERL'S leaving and stated she did not know whether he was married or single at the time he left. She did state, however, that he was single when he rented the apartment but inasmuch as she had no contact with him during the time that he resided in the apartment she stated she was in no position to furnish any information concerning him. She advised that Suite #3 was sufficiently large enough for two people in the event he did get married subsequent to the time of his original rental and, hence, she doubted that MUTTERPERL moved because of crowded conditions in the apartment.

Dr. H. L. REAGAN, 11720 Lorain Avenue, husband of Mrs. REAGAN, was interviewed at his office concerning any knowledge he might possess relative to MUTTERPERL. He stated that he could not recall the dates during which MUTTERPERL occupied Suite #3 in the apartment building nor was he able to offer any explanation for MUTTERPERL'S vacating the suite which he might have advanced. Dr. REAGAN advised that for record purposes he is carried as the owner of the apartment building and his wife is listed as landlord inasmuch as she keeps the records. He stated that he has very little contact with the tenants in the building and, hence, was unable to furnish any information concerning MUTTERPERL.

The records of the Cleveland Area Rent Office, Room 800, 2108 Payne Avenue, for the house accommodation at 16808 Madison Avenue as produced by JOHN HAVLACH, Supervising Rent Examiner, reflected a report of change in tenancy from the former tenant MULLEN to the new tenant WILLIAM MUTTERPERL on January 1, 1944. Photostatic copies of this original form were obtained and are being enclosed for the Bureau, New York and the United States Attorney, Southern District of New York, with their copies of this report. Again for clarification purposes these latter photostatic copies will be designated as Exhibit No. 3.

An examination of Exhibit No. 3 will indicate that WILLIAM MUTTERPERL was to have been a tenant at 16808 Madison Avenue on January 1, 1944, in the housing accommodation formerly held by MULLEN and that this form will further reflect that WILLIAM MUTTERPERL signed this form on February 24, 1944.

Mr. HAVLACH advised that a review of the records maintained at the Area Rent Office for the building at 16808 Madison Avenue contained no further information relating to Suite #3 or to WILLIAM MUTTERPERL. He added that landlords had the responsibility of submitting forms to his office when apartments were vacated and the names of tenants changed; however, he stated that a great number of them failed to comply with the rent control orders.

Mr. HAVLACH stated that in the event the above records which are in their possession pertaining to Suite #3 at 16808 Madison Avenue and as concerns WILLIAM MUTTERPERL should be needed as evidence, subpoenas should be directed to either Mr. FRANK WEISER, 2577 Overlook Road, Cleveland Heights, Ohio, or Miss RAE SPECTOR, 1632 Coventry Road, Cleveland Heights, Ohio, both of whom are attorneys for the Cleveland Area Rent Office. Mr. HAVLACH stated that either of the aforementioned individuals could properly introduce the records of the Cleveland Area Rent Office.

THOMAS McNAMEE, Customer Service Department, East Ohio Gas Company, 1405 East 6th Street, advised from the records of that company that service was rendered to WILLIAM MUTTERPERL, Suite #3, 16808 Madison Avenue, from January 4, 1944, to November 2, 1944.

Mr. McNAMEE advised that in the event such records are needed for court testimony a subpoena duces tecum should be directed to the East Ohio Gas Company, 1405 East 6th Street, who in turn would delegate the proper official to introduce the records in court.

2744 Mayfield Road

It will be noted in the report of SA JOHN B. O'DONOGHUE dated March 27, 1951, at Cleveland in instant matter that bank statements of the Cleveland Trust Company for the months of November and December, 1944, and January, 1945, indicated that PERL had received statements at 2744 or 3744 Mayfield Road.

It should also be noted that investigation revealed that the address 3744 Mayfield Road was a vacant lot.

HARRY ROGIN, owner of the apartment building at 2744 Mayfield Road, advised that he recalled a MUTTERPERL, whom he believed to be identical with a photograph of PERL, as having resided in his apartment building sometime during the war.

Mr. ROGIN upon contact by the writer advised that he had previously made an attempt to locate some evidence which would indicate the length of residence for PERL in his apartment building but that the results of such an attempt were unsuccessful. ROGIN stated that to the best of his knowledge PERL was a tenant of his, at best, for only a week or two weeks and that he had requested PERL to move. He stated he recalled that PERL brought in a great number of boxes, among which were several boxes of electrical apparatus and wires and PERL on occasions was known by him to be working with such apparatus as early as 2:00 and 3:00 a.m. ROGIN stated that he became afraid of PERL'S motives and requested him to leave.

JOHN HAVLACH, Supervising Rent Examiner, Cleveland Area Rent Office, produced the records for the apartment building at 2744 Mayfield Road, and after an examination of these records advised that he could locate no information which would indicate that WILLIAM MUTTERPERL or PERL was mentioned at this residence.

Mr. WILLIAM BRAUCHER, Customer Service Department, East Ohio Gas Company, 1405 East 6th Street, advised from the records of that company that service was rendered to WILLIAM MUTTERPERL, Suite #2, 2744 Mayfield Road, from November 2, 1944, until November 6, 1944. BRAUCHER stated that the records further reflected a change of address for WILLIAM MUTTERPERL from 2744 Mayfield Road to Upper of 1516 East 120th Street. It will be noted that the information concerning the subpoena of these records is listed in connection with the contact of THOMAS McNAMEE of the East Ohio Gas Company.

1516 East 120th Street

It was ascertained from MAX KONETSKI, 7519 Superior Avenue, who is the former custodian of the apartment building at the above address, that the rental management of this building for the latter part of 1944 and for the year 1945 was handled by the A. D. Frazer Company, Room 610, National City Bank Building. KONETSKI stated that he terminated his services at the apartment building in July, 1944, and that PERL was not a tenant at that time.

WILLIAM GROVES, Sales and Lease Department, A. D. Frazer Company, advised that they formerly handled the rental for the apartment building at 1516 East 120th Street. He stated that actually the address of the apartment is 11912 Ashbury Avenue and that the address 1516 East 120th Street is a rear part of the building containing two suites. He advised that all records pertaining to the apartment building have been destroyed by the company inasmuch as they are in the process of moving and that at their new location they would not have the storage space to keep all of their old records. GROVES added that he recalled the rental arrangements with the apartment building but advised that he did not recall the name of WILLIAM MUTTERPERL or WILLIAM PERL.

JOHN HAVLACH, Supervising Rent Examiner, Cleveland Area Rent Office, advised after a review of the records of that agency pertaining to the apartment building at 11912 Ashbury Avenue that such record contained no information relative to WILLIAM MUTTERPERL or WILLIAM PERL.

WILLIAM BRAUCHER, Customer Service Department, East Ohio Gas Company, advised from the records of that company that service was rendered to WILLIAM MUTTERPERL at 1516 East 120th Street, Suite #6, from November 6, 1944, to February 12, 1946. BRAUCHER advised that these records indicate that on January 23, 1945, PERL advised the company to bill him under the name of WILLIAM PERL rather than WILLIAM MUTTERPERL. BRAUCHER advised that the records show no forwarding address listed for PERL.

The information pertaining to the subpoena of the records of the East Ohio Gas Company has previously been set forth.

CONTACT AT N.A.C.A. RELATING TO PERL'S
PAPERS AND THE J-31 OR I-16
JET ENGINE

JESSE HALL, Assistant Chief of Research, N.A.C.A., was contacted and accordingly copies of the papers prepared by PERL entitled "Some Effects of Compressibility of the Flow Through Fans and Turbines" and "A General Representation of Axial Flow Fans and Turbines" were obtained for examination and discussion. In this respect, HALL advised that the contents of the aforementioned papers were highly theoretical in content and no relationship whatsoever existed between the content material and the J-31 or I-16 Westinghouse jet engine.

HALL explained that PERL'S paper "Some Effects of Compressibility of the Flow through Fans and Turbines" was an examination conducted to get compressibility effects on the flow through compressors and turbines in order to get some idea of these effects and at what Mach numbers these effects become important. HALL defined a Mach number as the ratio of the speed of the plane to the speed of sound.

In regard to PERL'S paper "A Representation of Axial Flow Fans and Turbines," HALL advised that the paper recommended several unconventional arrangements of fans and turbines in jet engines. HALL pointed out that the arrangement of the fans and turbines in the J-31 and I-16 jet engine was conventional.

In reference to Item No. 6 pertaining to the air compression engine, HALL said that such a statement as "tangential direction" made no sense to him inasmuch as such a term is never referred to in aeronautical technical language. He stated that directions are always described as either axial or radial (centrifugal).

MISCELLANEOUS

Mrs. GORDON OSTERSTROM, 3529 East Scarsborough Road, Cleveland Heights, Ohio, advised that they moved into the apartment vacated by PERL at 1516 East 120th Street immediately after PERL had left. She stated that to the best of her knowledge PERL moved out in February, 1946, and that they then immediately moved in. She described the apartment as somewhat of a mess at that time, stating that the wallpaper was hanging in shreds in the dining room, living room and bedroom. She added that PERL'S wife had "Kemtoned" the kitchen a red and salmon pink and that the kitchen was in such a mess that it was necessary to repaint it after they had occupied the apartment for a short time. She also advised that it was necessary for them to also paper the dining room and one bedroom because of the condition of the wallpaper. She added that PERL had told them at the time he vacated the apartment that he was going to California to pursue further study.

Mr. and Mrs. GEORGE RANKER, 14899 Detroit Avenue, advised upon interview that they were formerly the custodians of this apartment building at 16808 Madison Avenue and that they vaguely recalled a WILLIAM MUTTERPERL as a tenant in Suite #3. They stated that to the best of their knowledge MUTTERPERL moved into Suite #3 early in 1944 and that he was still residing there at the time they terminated their services as custodians in approximately July, 1944.

Mrs. RANKER stated that at one time she recalls discussing the re-decoration of the apartment with PERL but that during the time he was there he accomplished nothing in this regard at all. She further stated that PERL was single at the time he moved in there and he was still single when they left. She advised that after cleaning the suite prior to the time PERL moved in she never went back into the suite again.

Both Mr. and Mrs. RANKER advised that during the time that they recalled PERL as a tenant they never noticed any visitors coming to his suite nor did they observe anything out of the ordinary concerning PERL. They advised that during the time they were custodians of the apartment building they maintained a receipt book but at the time they left they inquired of Dr. REAGAN as to whether he desired the receipt book and, according to them, he advised them to destroy it. They added that to the best of their knowledge when they vacated the apartment they left the receipt book along with some other trash in their suite. They advised that Mrs. CHARLES R. WEBER assumed their jobs and stated that after she was there for a little while she went to California and that they did not know whether or not she had returned. They stated that she was married to a serviceman at that time and that they had also heard that she had obtained a divorce.

CV F.d.
65-2730

Dr. and Mrs. H. L. REAGAN were contacted relative to any knowledge they might possess concerning Mrs. CHARLES R. WEBER and they advised that after she assumed the position of custodian of their apartment building she went to California and when she returned they fired her. They stated that Mrs. WEBER later received a divorce but that they did not know any circumstances surrounding it nor were they able to advance any information concerning Mrs. WEBER'S maiden name. They further advised that they had no information whatsoever concerning the present whereabouts of Mrs. WEBER.

ENCLOSURES TO BUREAU, NEW YORK AND UNITED STATES ATTORNEY, SOUTHERN DISTRICT OF NEW YORK:

Photostatic copies of ledger sheets of Mrs. LILLIE R. REAGAN, Exhibit No. 1 and Exhibit No. 2, to each.

Photostatic copy of O.P.A. Form D-25, Exhibit No. 3, to each.

- P E N D I N G -

CV F.O.
65-2730

LEADS

No leads are being set forth in this report since all leads are being designated by teletype and letter.

Reference: Bureau letter to New York 5/31/51.

EXHIBIT NO. 1

Re: WILLIAM PERL, aka. William Mutterperl
ESPIONAGE - R, PERJURY

Cleveland file 65-2730

Bureau file 65-59312 -

TR	ITEMS	FOLIO	✓	DEBITS	DATE	ITEMS	FOLIO	✓	CREDITS
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EXHIBIT NO. 2

Re: WILLIAM PEPL, aka. William Mutterperl
ESPIONAGE - R, PERJURY

Cleveland file 65-2730

Bureau file 65-59312 -117

Creditor's Name																			
DATE		ITEMS		FOLIO		✓		DEBTS		DATE		ITEMS		FOLIO		✓		CREDITS	
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EXHIBIT NO. 3

Re: WILLIAM PERL, aka. William Mutterperl
ESPIONAGE - R, PERJURY

Cleveland file 65-2730

Bureau file 65-59312

UNITED STATES OF AMERICA
OFFICE OF PRICE ADMINISTRATION

REPORT OF CHANGE IN TENANCY

CLEVELAND AREA RENT OFFICE
ROOM 470
1100 CHESTER AVENUE
CLEVELAND 1, OHIO

Read instructions below before preparing this report.

CONCERNING (ADDRESS OF HOUSES ACCOMMODATIONS INVOLVED):

16808 Madison Av

NAME OF LANDLORD:

Lillie Reagan

TELEPHONE NO.:

ADDRESS OF LANDLORD—NUMBER AND STREET:

1331 Phelps Av.

CITY AND STATE:

Lakewood Ohio

NAME OF FORMER TENANT:

Muller (initials?)

NAME OF NEW TENANT:

Mr. Mutterperl

DATE OF OCCUPANCY BY NEW TENANT:

Jan 1st 1944

RENT CHARGED NEW TENANT
FOR ABOVE ACCOMMODATIONS

AMOUNT:

45

PER:

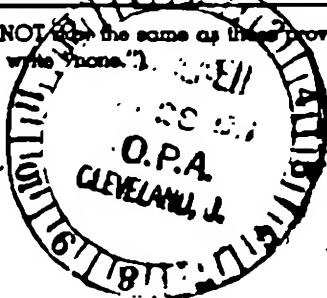
month

MAXIMUM RENT FOR ABOVE ACCOMMODATIONS

AMOUNT:

PER:

If the accommodations and services are NOT the same as those provided the former tenant, you are required to list the changes in this space. (If no changes have been made, write "none".)



NOTE: Amount charged new tenant may not exceed Maximum Rent for the accommodations (see Item 7 of Registration Statement) unless and until an order has been entered by the Rent Director authorizing an increase.

I have read the above and have signed and dated my landlord's copy of Registration Statement for the above dwelling unit:

I HEREBY CERTIFY that the information given herein is true and correct:

DATE:

2/24/44

SIGNATURE OF TENANT:

William Mutterperl

DATE:

2-21-44

SIGNATURE OF LANDLORD:

Dr. L. L. Reagan

INSTRUCTIONS FOR THE USE OF THIS FORM

Within 5 days after renting a dwelling unit to a new tenant the landlord must prepare this Report and send or bring it to the Rent Director for the area in which the accommodations are located.

Give all the information requested on the Report. This information should either be typed or printed in ink and the Report must be signed and dated by you.

Be sure that you show the Registration Statement for this dwelling unit to the new tenant and have him sign on the back. You must also have the tenant sign this Report in the box in the lower left-hand corner.

Office Memorandum • UNITED STATES GOVERNMENT

TO : MR. BELMONT
 FROM : MR. HENRICH
 SUBJECT: WILLIAM PERL, aka
 William Mutterperl
 ESPIONAGE - R
 PERJURY

DATE: May 19, 1951

Referred to

Col. O'Connell

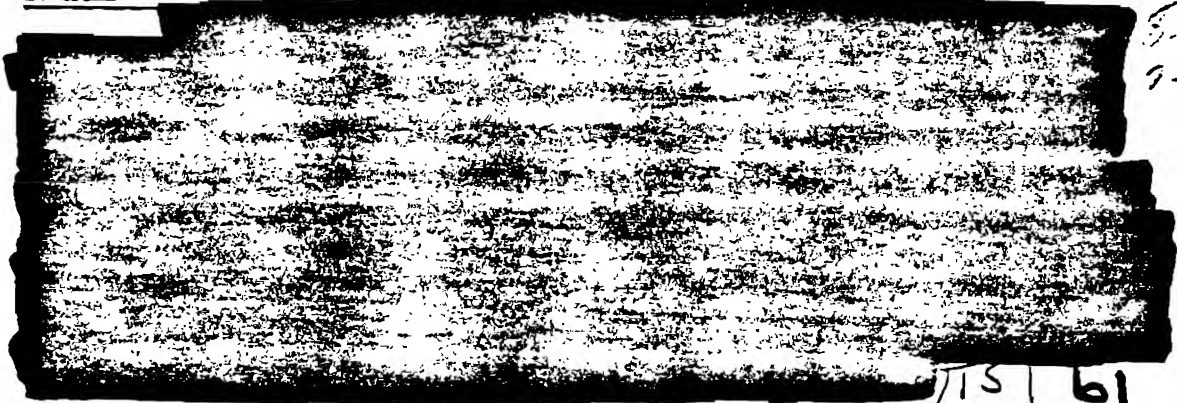
5-28-51

~~TOP SECRET~~

Tolson _____
 Ladd _____
 Clegg _____
 Glavin _____
 Nichols _____
 Rosen _____
 Tracy _____
 Harbo _____
 Belmont _____
 Mohr _____
 Tele. Room _____
 Nease _____
 Gandy _____

PURPOSE

To request that the Bureau's liaison representative at the Department of the Air Force make an effort to locate a communication which may have been directed in July or August, 1944, to various aircraft companies in the United States, setting forth specifications for a new jet fighter plane and soliciting competitive bids for the production of this plane, as a result of which solicitation of bids the P-80 jet fighter plane was produced.

DETAILS

Through an inquiry made at NACA it has been learned that the specifications or details concerning this jet fighter undoubtedly referred to the P-80 jet fighter plane. It was suggested that the circularization of certain of the aircraft firms in the United States concerning this jet fighter plane may have referred to the invitations or solicitations for competitive bids which were sent out by the Air Force as a result of which invitations the P-80 plane was subsequently produced.

RECOMMENDATION

It is recommended that the Bureau's liaison representative make an inquiry of the appropriate official at the Department of the Air Force in an effort to obtain this information. In the event this inquiry is unproductive it is suggested that a similar check be made of the air arm of the U. S. Navy.

EFE:hc
 65-59312

If both of the above are negative, a similar check should be made at the Department of the Army.

BANDWIT

memo from
 Mr. K... to Mr. Belmont
 6/8/51 - ESS

FIVE

~~TOP SECRET~~

ALL INFORMATION CONTAINED
 HEREIN IS UNCLASSIFIED
 EXCEPT WHERE SHOWN
 OTHERWISE.

4913
 Classified by
 Exempt from GDS, Category 2
 Date of Declassification Indefinite
 APP/bja 2-1-78
 At to Circulate
 EFE:hc
 6-11-51

RECORDED - 9
EX-92

65-59312-460

JUN 20 1951

SAC, New York

Director, FBI

June 19, 1951

PERSONAL ATTENTION

~~STRICTLY CONFIDENTIAL~~

RA
[REDACTED] b1
WILLIAM PERL, aka
ESPIONAGE - R
PERJURY

[REDACTED] b1
[REDACTED] b1
In a recent discussion with Mr. Robert Bell, Chief Security Officer of the NACA, it was learned that NACA was furnished a copy of a research publication issued by the Air Materiel Command on September 15, 1944, entitled "Guided Missiles - Status and Availability." According to Bell, this publication contained a section pertaining to the JB-2 bomb. A review of the information in this section reflected that the JB-2, as of September 15, 1944, was being considered for use on small aircraft carriers and that the anticipated production schedule for September called for the completion of 10 bombs.

cc - Buffalo
- Cincinnati
- Cleveland
- Washington Field

65-59312 ✓

NOT RECORDED

SIX JUN 22 1951

Classified by 11973
Exempt from GDS, Category 2
Date of Declassification Indefinite
AP/bja 2-1-78

887 65 59543
65-59312
JUN 25 1951
DUPLICATE YELLOW

ORIGINAL FILED IN 61

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
EXCEPT WHERE SHOWN
OTHERWISE.

APPROPRIATE
AND FIELD
ADVISE
SLIP
DATE 2/6/80
William
Ladd
Clegg
Glavin
Nichols
Rosen
Tracy
Harbo
Belmont
Laughlin
Mohr
Tele. Room
Nease
Gandy

[REDACTED] b1

[In view of the information received from NACA as to the existence of the afore-mentioned research publication on guided missiles in their files on or after September 15, 1944, there is a possibility that similar information published by the Air Materiel Command concerning the JB-2 bomb may have been made available to the NACA laboratory at Cleveland, Ohio, on or prior to that date. The Cleveland Division is therefore requested to immediately contact an appropriate official at NACA, Cleveland, to determine if any such report or publication issued by the Air Materiel Command concerning the JB-2 bomb was available in their files as of early September, 1944, and if so, the accessibility of this information to Perl should be ascertained. A similar check should be made by the Cincinnati Division at the Air Materiel Command, Dayton, Ohio, to determine what reports were issued by that Command on or prior to September 15, 1944, relative to the JB-2 bomb. The exact day or dates of any publication should be ascertained and full information concerning the dimensional features appearing in such publication with particular reference to the weight, speed, range and dimensions of the jet unit should be secured. It should also be ascertained whether any such publications were forwarded by the Air Materiel Command to NACA, Cleveland, and if so, the date thereof.

[REDACTED] b1

~~TOP SECRET~~

The Cleveland and Cincinnati Divisions
are requested to give this matter expeditious attention
in view of the imminence of the Perl perjury trial in
the Southern District of New York.

[REDACTED]

61

~~TOP SECRET~~

Office Memorandum • UNITED STATES GOVERNMENT

TO: MR. TADD
 FROM: MR. BELMONT
 SUBJECT: WILLIAM PERL, aka
 William Mutterperl
 ESPIONAGE - R
 PERJURY

DATE: June 12, 1951

~~TOP SECRET~~PURPOSE

To advise that NACA suggested in this letter a number of questions to be asked Tokaev to assist in their making more positive identification of the projects.

To recommend that the attached letter be forwarded to the Bureau's Legal Attache in London, requesting a thorough interview of Tokaev, but that the reports and memoranda, some of which are restricted and confidential, furnished to the Bureau by NACA, be retained at the Bureau pending results of the requested interview.

DETAILS

As you will recall, Gregori A. Tokaev, a defector from the Russians in late 1947, is presently in the hands of the British. He was interviewed by a representative of CIA on March 31, 1951, and the results of this interview were made available to the Bureau by letter of May 17, 1951. An analysis was made of the various aeronautical and guided missile data which, according to Tokaev, was obtained by the Russians, and the results thereof were set forth in my memorandum dated May 21, 1951.

As you know, William Perl, an aerodynamics engineer who was employed by NACA from 1936 to 1950, and a suspected member of the Rosenberg espionage network, was considered as the individual who possibly made available to the Soviets a considerable portion of the aeronautical data known to have fallen into their hands.

EFE:hc

65-59312

cc: 65-59913 (Kuvinov)
65-59543 (Unsub B)

RECORDED - 88

INDEXED - 88

EX - 91

JUN 25 1951

COPIES DESTROYED
R 47 NOV 22 1960Classified by 41913
Exempt from GDS, Category 1+2
Date of Declassification Indefinite

61 JUL 10 1951 AP/65A 2-1-78

~~TOP SECRET~~

FIVE

HANDLED BY
STAMP/DESK

Tolson _____
 Ladd _____
 Clegg _____
 Glavin _____
 Nichols _____
 Rosen _____
 Tracy _____
 Harbo _____
 Belmont _____
 Mohr _____
 Tele. Room _____
 Nease _____
 Gandy _____

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RECORDED

Documents returned to
 NACA 6/19/52
 see per 458
 14 INDEXED
 per

WMS
 9-1

[5] 61

[5] 61

65-59312 466

~~TOP SECRET~~

The details of the aeronautical and guided missile data furnished by Tokaev were discussed with Mr. Robert A. Bell, Chief Security Officer, NACA. As a result of this discussion he submitted the attached letter, with its enclosures, setting forth details concerning the various aeronautical and guided missile projects to which it was believed Tokaev was making reference. This letter suggested that Tokaev be further interviewed along the lines mentioned therein to enable a more positive identification of the particular projects and thereby to assist in determining the source through which this data may have come into the hands of the Soviets.

It will be noted that the enclosures furnished by NACA were comprised of various restricted, confidential, declassified, and unclassified research memoranda and reports. These were furnished to the Bureau for information and possible assistance in handling the further interview with Tokaev. These documents are, however, being retained by the Bureau for possible use in evaluating the information which is obtained by the Bureau's Legal Attache in London in the future interview.

Mr. Bell further advised that NACA would, upon request of the Bureau, make available to us one of their technical research men for assistance in connection with any future interviews of Tokaev. He mentioned that in the event it is learned that Tokaev is familiar with the research facilities of the Soviets NACA may be desirous of having one of their officials interview him in the future for information of an intelligence nature. In this respect it is noted that Tokaev was head of the Research and Aerodynamics Laboratory for the Air Academy in Moscow, in 1938, Aviation Specialist for the Soviet Air Force in Germany in 1945, Secretary with the Russians in the Allied Secretariat of the Control Council in 1945 and 1946, and Senior Assistant for Scientific Questions to the Chief of the Air Section of the Soviet Ministry of Aircraft Production.

A separate communication is being directed to the Bureau's Legal Attache in London requesting that Tokaev be appropriately interviewed concerning the activities of Kuvinov in the case entitled "Major General Victor Nicolaevich Kuvinov, Soviet Air Attache; Espionage - R." With this separate communication a photostatic copy of the results of CIA's previous interview of Tokaev is being made available to the Legal Attache in London.

RECOMMENDATION

It is recommended that the attached letter be directed to the Legat, London, requesting a thorough interview concerning the various aeronautical and guided missile matters described by Tokaev in his interview with CIA, and that this interview be conducted generally along the lines suggested by NACA in its communication of June 6, 1951..

~~TOP SECRET~~

FEDERAL BUREAU OF INVESTIGATION
U. S. DEPARTMENT OF JUSTICE
COMMUNICATIONS SECTION

JUL 22 1950

TELETYPE

Mr. Tolson	/
Mr. Ladd	/
Mr. Clegg	/
Mr. Glavin	/
Mr. Nichols	/
Mr. Rosen	/
Mr. Tracy	/
Mr. Harbo	/
Mr. Belmont	/
Mr. Mohr	/
Tele. Room	/
Mr. Nease	/
Miss Gandy	/

FBI, CLEVELAND 7-22-50 1-05 AM EDST AO

WFO

DIRECTOR AND SACS NEW YORK, ALBANY, BUFFALO, AND PITTSBURGH

URGENT

WILLIAM PERL, AKA WILLIAM MUTTERPERL, ESPIONAGE- R. NEW CASE OPENED
CLEVELAND AS OFFICE OF ORIGIN. AT ELEVEN A. M., JULY TWENTYONE, SUBJ
CONTACTED CLEVELAND OFFICE AND REQUESTED INTERVIEW AT FIVE P. M. ON
INTERVIEW HE STATED HE DESIRED TO POINT OUT THAT PHOTOS OF TWO CHILDREN
SECURED IN APARTMENT SEARCH AND WHOM HE HAD PREVIOUSLY DENIED KNOWING,
MIGHT POSSIBLY BE CHILDREN OF ALFRED SARANT. ONE PHOTO HAS ON REVERSE
SIDE THE FOLLOWING- JEREMY DASH TWENTY MONTHS, AUGUST, FORTYEIGHT
AND THE OTHER STEVE DASH SIX MONTHS, DECEMBER, FORTYEIGHT. SAC R. W.
WALL OF ALBANY ADVISED TELEPHONICALLY HE HAD NEGATIVES IN HIS POSSESSION
SECURED FROM EFFECTS OF ALFRED SARANT WHICH ARE APPARENTLY IDENTICAL
WITH PHOTOS FOUND IN EFFECTS OF PERL. PERL CONTINUES TO DENY ANY
CONTACT WITH SARANT AFTER FALL OF FORTYSIX BUT STATED IN VIEW OF LETTER
WRITTEN BY HETTI SAVIDGE TO HIM, SET FORTH IN CLEVE. TEL JULY TWENTYONE,
HE PROBABLY DID SEE SARANT IN EARLY FORTYSEVEN. POSITIVELY DID NOT
SEE SARANT THEREAFTER NOR HAS HE CORRESPONDED WITH HIM. WHEN CONFRONTED
WITH ABOVE PHOTOS HE WAS VERY VAGUE AND UNABLE TO EXPLAIN OTHER THAN TO
SAY PERHAPS SARANT MAILED THEM TO HIM. IN SUMMER OF FORTYSEVEN PERL
SPENT ABOUT SIX WEEKS IN ITHACA WORKING AT CORNELL UNIVERSITY UNDER
AUSPICES DR. THEODORE VON KARMAN AND RESIDED IN COLLEGE DORMITORY.
PAYING CORNELL FOR ROOM. HAD OFFICE ASSIGNED BY DR. W. R.

ENDPG ONE

30

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842 NOV 22 1961

RECORDED - 58

INDEXED - 58

EX-6

105-59312-59

AUG 15 1950

14

ONE

PAGE TWO

ASSOCIATED WITH PROFESSORS A. R. KANTROWITZ, J. J. WILD, AND KUO YH, CHINESE, AT CORNELL. [NACA RECORDS REFLECT PERL VISITED ITHACA NACA OCTOBER TWELVE, FORTYEIGHT.] HE STATES HE TRAVELLED ON OFFICIAL BUSINESS NACA TO GIVE LECTURE AT CORNELL AND STAYED AT SEARS HOME THAT NIGHT, RETURNING TO CLEVELAND FOLLOWING DAY. DID NOT CONTACT OR ATTEMPT TO CONTACT SARANT EITHER SUMMER FORTYSEVEN OR OCTOBER FORTYEIGHT. IN RE MORTON SOBBELL, PERL STATES HE KNEW SOBBELL AS A FELLOW STUDENT AT CCNY. HE STATES HE DID NOT ASSOCIATE WITH HIM SOCIALLY AND HAS NEVER SEEN HIM SINCE CCNY DAYS. PERL WAS ONLY ABLE TO RECALL ONE OTHER STUDENT OF CCNY DAYS, THIS BEING ONE PHILIP PARZEN, WHO STUDIED ENGINEERING AT CCNY. PERL SAW PARZEN ON ONE OCCASION SINCE LEAVING COLLEGE, THIS BEING AT A MEETING OF THE AMERICAN PHYSICS SOCIETY IN NEW YORK JANUARY TWENTYFOUR DASH TWENTYEIGHT, FORTYNINE. PERL STATES PARZEN IS EMPLOYED WITH AN ELECTRICAL ENGINEERING FIRM IN NYC. PERL VISITED NY DECEMBER TWENTYFOUR THROUGH TWENTYSEVEN LAST, APRIL TEN THROUGH FOURTEEN LAST, AND UNRECALLED DATE IN MAY. STATES ON ALL OCCASIONS HE PROBABLY STAYED AT ONE NAUGHT FOUR EAST THIRTY EIGHT ST, RESIDENCE OF HENRIETTA SAVIDGE, OR NINE THREE SIX TIFFANY, PARENTS HOME. [NACA RECORDS REFLECT SUBJECT TOOK ANNUAL LEAVE JUNE FOURTEEN LAST.] HE CANNOT ACCOUNT FOR HIS

END PAGE TWO

2

PAGE THREE

WHEREABOUTS ON THIS DATE AND APPEARED QUITE CONCERNED OVER IT. NOTED GREENGLASS ARRESTED JUNE SIXTEEN LAST. HOTEL RECORDS BEING CHECKED IN CLEVELAND RE POSSIBILITY ROSENBERG VISITED AT THAT TIME. ALBANY WILL CONSIDER INTERVIEWING PROFESSOR W. R. SEARS TO VERIFY PERL-S STAYING WITH HIM NIGHT OF OCTOBER TWELVE, FORTYEIGHT, AND CHECK RECORDS CORNELL UNIVERSITY FOR INFO RE PERL-S RESIDENCE SUMMER FORTYSEVEN. NY CONSIDER PERL-S STATEMENT HE STAYED WITH HENRIETTA SAVIDGE IN RE-INTERVIEWING HER AND CONSIDER INTERVIEWING PERL-S PARENTS OR NEIGHBORS AT NINE THREE SIX TIFFANY ST. TO VERIFY HIS VISITS THERE.

BUREAU REQUESTED, THROUGH PARIS REPRESENTATIVE, TO INTERVIEW SAMUEL PERL, FIVE THREE RUE NOTRE DAME, DE LORETTE, PARIS NINE, FRANCE, OR RUE DE MAUBEUGE, PARIS TEN, FRANCE, RE WHEREABOUTS JOEL BARR AND HIS KNOWLEDGE OF BARR, SARANT, ELITCHER, MORTON SOBBELL AND ROSENBERG.

ALSO REQUESTED SAM PERL BE QUESTIONED AS TO WHAT SUBJECT STATED TO HIM IN LETTER CONCERNING INVESTIGATION CONDUCTED OF SUBJECT BY NACA.

ALSO REQUESTED BUREAU SECURE INCOME TAX DATA ON SUBJECT FOR YEARS

NINETEEN FORTY TO DATE. ALBANY OFFICE ADVISED BILL OF SALE MADE OUT TO WILLIAM MUTTERPERL, FIFTEEN SIXTEEN ONE TWENTIETH ST, CLEVELAND DATED MARCH TWENTYFOUR, FORTYFIVE, FROM TATAY MUSIC SHOP, ONE FORTY SEVEN WEST FORTYSIX ST. NEAR BROADWAY, FOR PURCHASE OF GUITAR AND ACCOUTREMENTS, TOTAL PRICE SEVENTYFIVE SIXTY, BILL NUMBER SIX SIX THREE NINE, PAID IN CASH WAS FOUND IN EFFECTS OF ALFRED SARANT. PERL DENIES PURCHASING GUITAR OR BEING IN NEW YORK AT THAT TIME.

END PAGE THREE

PAGE FOUR

SUBJECT ON LEAVING CLEVELAND OFFICE EVENING OF JULY
TWENTYONE STOPPED AT GAS STATION, PROCURED MAP AND REQUESTED INFO
AS TO EASIEST ROUTE TO NEW YORK. PERL DRIVES FORTYNINE GREEN TUDOR
DODGE, OHIO FIFTY LICENSE GB FIVE EIGHT FIVE. SURVEILLANCE TO THIS
MOMENT DOES NOT INDICATE HE CONTEMPLATES LEAVING CLEVELAND TONIGHT.
FOR INFO ALL OFFICES, PERL DESCRIBED AS WHITE, MALE, DARK BROWN HAIR,
SIX FEET THREE INCHES TALL, ONE EIGHTYFIVE POUNDS, LONG FACE, HEAVY
EYEBROWS, WEARS CONSERVATIVE SPORT CLOTHES. SURVEILLANCE OF SUBJECT
CONTINUING.

ABBATICCHIO

ACK IN ORDER PLS

END

1-24 AM OK FBI WA LEA

1-24 AM OK FBI NYC WHL

OK FBI AL EFW

OK FBI BU JFG

OK FBI PG SR

DISC

*cc Mr. B. J. [unclear]
Mr. [unclear]*
RECOPIED

HELD UNTIL 4:00 AM
FOR CORRECTION

4
TWO COPIES WFO

COMMUNICATIONS SECTION

AUG 22 1950

TELETYPE

Mr. Ladd _____
Mr. Clegg _____
Mr. Glavin _____
Mr. Nichols _____
Mr. Rosen _____
Mr. Tracy _____
Mr. Harbo _____
Mr. Belmont _____
Mr. Mohr _____
Tele. Room _____
Mr. Nease _____
Miss Gandy _____

FBI, CLEVELAND 8-22-50 5-05 PM EDST AO

DIRECTOR AND SACS, NEW YORK, BALTIMORE, BOSTON AND SEATTLE URGENT

WILLIAM PERL, WAS., ESP-R. DETERMINED AT NACA, PERL HAS ASSOCIATED

WITH FOLLOWING IN ADDITION TO THOSE PREVIOUSLY MENTIONED. ROBERT

RESNICK, MEMBER CP WHILE IN CLEVELAND. PERL WAS RESNICK-S SECTION

HEAD NINETEEN FORTYFIVE. [NACA CONFIDENTIALLY ADVISED ██████████ CLEARED

AFTER LGE INVESTIGATION IN EARLY FORTYSIX BY ██████████

██████████ RESIGNED JUNE TWENTYFOUR, FORTYSIX, TO
ACCEPT POSITION JOHNS HOPKINS UNIVERSITY. RESNICK SUBJECT BALTIMORE

FILE. PERL ALSO ASSOCIATED WITH RALPH W. SPITZER AT NACA, LANGLEY
AFD. ██████████ RESIGNED NACA, CLEVELAND NOVEMBER TWENTYNINE, FORTYTHREE

TO JOIN OCEANOGRAPHIC INSTITUTE, WOODSHOLE, MASS. FORMER NACA

EMPLOYEE, GORDON E. OSTERSTROM, STATES SPITZER FIRED FORTYEIGHT FROM
UNIVERSITY OF WASHINGTON FOR CP MEMBERSHIP. SPITZER BORN FEBRUARY NINE,

NINETEEN EIGHTEEN, NYC. BALTIMORE FURNISH BRIEF SUMMARY RE RESNICK,

INCLUDING PRESENT ACTIVITIES. BOSTON AND SEATTLE FURNISH SAME RE

SPITZER. NY FURNISH ANY PERTINENT DATA RE BOTH.

ABBATICCHIO

EN SEATTLE ADVISED

END AND ACK IN ORDER PLS

508 PM OK BI WA NM

FSPEB NY OK 1950 NYC JJG

EKFBI BA MLF

OK FBI BS JAR

RECORDED - 43 65-59312-70

INDEXED - 43 AUG 22 1950

EX-93

FEDERAL BUREAU OF INVESTIGATION
U. S. DEPARTMENT OF JUSTICE
COMMUNICATIONS SECTION

AUG 24

TELETYPE

Tolson _____
Ladd _____
Clegg _____
Glavin _____
Nichols _____
Rosen _____
Tracy _____
Mr. Harbo _____
Belmont _____
Mohr _____
Tele. Room _____
Mr. Nease _____
Miss Gandy _____

WA 4 NY Q1 FROM BA 24 2-17 PM MLF

DIRECTOR AND SACS NEW YORK, CLEVELAND AND PITTSBURGH URGENT
WILLIAM PERL, WAS. ESP DASH R. RE CLEVELAND TEL AUG. TWENTYTWO,
FIFTY WHICH CONTAINED THE FOLLOWING INFO. DETERMINED AT NACA,
PERL HAS ASSOCIATED WITH FOLLOWING IN ADDITION TO THOSE
PREVIOUSLY REPORTED. ROBERT RESNICK, MEMBER OF CP WHILE IN
CLEVELAND. PERL WAS RESNICK-S SECTION HEAD,
NINETEEN FORTYFIVE. [NACA CONFIDENTIALLY ADVISED [REDACTED] CLEARED
AFTER LGE INVESTIGATION IN EARLY FORTYSIX BY [REDACTED]
[REDACTED] RESIGNED JUNE TWENTYFOUR
FORTYSIX TO ACCEPT POSITION, JOHNS HOPKINS U.] REFERENCED
TEL REQUESTED BA TO FURNISH BRIEF SUMMARY RE RESNICK INCLUDING
PRESENT ACTIVITIES. BA FILES REFLECT RESNICK NOW RESIDING ONE
TWO THREE N. LINDEN AVE., PITTSBURGH, PA. AND SINCE JUNE,
FORTYNINE, HAS BEEN EMPLOYED IN PHYSICS DEPT. UNIVERSITY OF
PITTSBURGH. INASMUCH AS PITTSBURGH IS NOW ORIGIN, HAS COPIES
OF ALL PREVIOUS REPORTS AND FACT THAT RESNICK HAS RESIDED FOR
PAST YEAR IN PITTSBURGH, THAT OFFICE IS BEING REQUESTED TO PREPARE
BRIEF SUMMARY RE RESNICK INCLUDING PRESENT ACTIVITIES. RUC.

CARSON

END

PG AND CV ADVISED.

PLS ACK

WA BA R 4 WA EM

NYE 2 12A R2 XX BA R1 NY DW

65-59312-73

AUG 25 1950

37

RECORDED - 31

INDEXED - 31 EX-16

FOR

Mr. Lamphere

MR. A. H. BELMONT

August 3, 1951

MR. C. E. HENNRICH

SERGEI YAKOLEVICH IVANOV
ESPIONAGE - R

PURPOSE

To set forth detailed information concerning the identification numbers and subject matter of the confidential and classified reports which, according to NACA (National Advisory Committee for Aeronautics) were requested at the Library of Congress by Sergei Y. Ivanov, Assistant Soviet Air Attache, on July 6, 1951. To advise further that NACA has indicated that, although both the identification numbers and the reports were classified at the present time, it is possible the existence of such reports may have been determined by Ivanov through reference to subsequent unclassified reports of NACA, Navy or USAAF to which he may have had access.

To indicate that NACA has made available the attached copies of their Aeronautical Intelligence Bulletins Nos. 1698 and 1700, in which the identification numbers and titles of the research reports requested by Ivanov appear. Further, according to NACA, these AIB's were sent to some 145 interested government agencies and aircraft companies, all of which had been previously cleared for receipt of confidential and restricted materials. A list of the agencies and companies receiving copies of the listed AIB's is being prepared and will be made available for information of Bureau.

To report that NACA made available the attached list of all research memoranda and reports requested and obtained by Ivanov since July 2, 1951, from the Library of Congress, all of which memoranda and reports are no longer classified. A photostatic copy of the sheet on which appears the identification numbers of the requested reports, the handwriting on which is presumably that of Ivanov, will be made available to the Bureau by NACA.

To further advise that NACA has been requested to furnish the information as to whether the pertinent AIB's or classified reports were made available to Boris Semion Maximoff of the Aero-Electronics Company, Chicago, Illinois, it being noted that Maximoff is known to have been in recent contact with Ivanov.

65-39986

cc: 65-59312

Attachments

EFE:mpm

NOT RECORDED

145 AUG 27 1951

INITIALS ON ORIGINAL

63 SEP 27 1951

DETAILS

In your memorandum to Mr. Ladd on July 11, 1951, in the Perl case, it was pointed out that Robert Bell, Chief Security Officer of NACA, had telephonically advised that the Assistant Soviet Air Attache, Ivanov, had made a request at the Library of Congress for three confidential reports, the existence of which was considered as classified by NACA. It was further indicated that Bell was awaiting full details and would make the results available to the Bureau at a future date.

On July 27, 1951, former Special Agent Lloyd Blankenbaker, who is now Assistant to the Chief Security Officer at NACA, made available a letter which NACA had received on July 9, 1951, from the Library of Congress. This letter advised that Sergei Y. Ivanov, Assistant Soviet Military Attache, had visited the Aeronautical Division of the Library on several occasions during the past week. Further, that on July 2, 1951, he borrowed NACA technical notes numbers 2190, 2232, 2300, 2306, 2314, 2317, and 2298. On July 6, 1951, he borrowed NACA technical notes numbers 2302, 2322, 2314, 2320, and 2327, together with NACA technical memorandum number 1297. On the latter date, Ivanov also requested NACA research memoranda numbers E-50H05DR (incorrect number possibly referring to number E-50D05 or number E-50E05), E-50D17DC, and E-50D20. According to the Library of Congress letter, these latter three NACA research memoranda were not supplied to Ivanov and he was advised that they were not available. According to Blankenbaker, all of the aforementioned NACA reports, with the exception of the last three, were no longer classified documents and, therefore, some were made available to Ivanov. Blankenbaker turned over to the Bureau a list of all of the NACA reports which were requested by and furnished to Ivanov during the month of July, 1951, together with a copy of the AIB's pertaining to the three classified items which Ivanov had requested. It might be noted that the AIB's contain the same classification as the reports or research memoranda described thereon.

According to information received by NACA from the Library of Congress, Ivanov also borrowed a copy of Volume 6, Nos. 2 and 3, for the year 1951 of the Swedish Aviation Publication "Interavia." According to Blankenbaker, these are unclassified items.

Blankenbaker advised that insofar as the three aforementioned classified items are concerned, the identification numbers are not considered classified but these numbers would not be generally known to anyone who had not had access either to the AIB's, the research memos, or some other classified report. He mentioned that the listing of the publications by NACA has received the same classification as the documents themselves. It was later learned, however, through Mr. Miller at Langley Field, Virginia, where these AIB's and research memoranda are printed, that it is possible that the identification numbers of these classified documents may have appeared in some subsequently issued unclassified report issued by NACA, Navy or USAF.

The following information was furnished as to the meanings of the various letters or numbers appearing in the identification numbers of NACA research memoranda:

RM	Research Memoranda
E	Engineering Research Laboratory, Lewis Flight Propulsion Laboratory, Cleveland, Ohio
50	Year issued
D	Month of year issued (April)
17	Day of month issued.

According to Blankenbaker, no information is available at NACA as to the exact meaning of the "DC" and the "DR" appearing at the conclusion of the identification numbers of these documents requested by Ivanov, as such designation has never been used by NACA. It was suggested, however, that the latter may have been used to designate that these items were confidential or restricted ("DR" Data Restricted and "DC" Data Confidential).

As previously mentioned, all of the AIB's and research memoranda issued by NACA are printed at Langley Field, Virginia. It was explained by Blankenbaker that the AIB's are distributed to their mailing list consisting of some 145 interested agencies and aircraft companies which have previously received the necessary clearance to receive confidential and restricted items. Further, according to Blankenbaker, their chargeout records reflect that around 300 of instant research memoranda were distributed. He mentioned that a list of the agencies and aircraft companies receiving the AIB's in July, 1950, was being prepared and would be made available to the Bureau.

Inasmuch as instant file on Ivanov reflects that he is known to have been in contact with one Boris Semion Maximoff of the Aero-Electronics Company, Chicago, Illinois, it was requested that Blankenbaker advise the Bureau whether there was any record indicating that the AIB's or the research memoranda requested by Ivanov at the Library of Congress may have been made available by NACA to Maximoff or his company.

NACA is also making available to the Bureau a photostatic copy of the list of items requested from the Library of Congress by Ivanov, which list is reportedly in the handwriting of Ivanov. The Bureau will also be kept advised through NACA concerning any future request made of the Library of Congress by Ivanov.

RECOMMENDATION

It is recommended that the list of companies to which AIB's are distributed by NACA when obtained be carefully examined to determine whether Ivanov is known to have been in contact with any representative of such companies. It is further recommended that, in view of Ivanov's activities in obtaining aeronautical information for the Soviets, the investigation of his activities should be intensified in an effort to determine his contacts and possible source for obtaining confidential data concerning NACA research projects. It is noted in this respect that, according to Soviet defector Lebedev, the present Soviet Air Attache, Kuvinov, who is Ivanov's superior, during the period of his association with the Soviet Air Ministry in Moscow during 1947 and 1948 is reported to have received classified NACA reports.

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NATIONAL ADVISORY COMMITTEE
FOR AERONAUTICS

1724 F STREET, NORTHWEST
WASHINGTON 25, D. C.

LANGLEY AERONAUTICAL LABORATORY
LANGLEY FIELD, VA.

AMES AERONAUTICAL LABORATORY
MOFFETT FIELD, CALIF.

LEWIS FLIGHT PROPULSION LABORATORY
CLEVELAND AIRPORT, CLEVELAND 11, OHIO

TELEPHONE: LIBERTY 8-6700

June 15, 1951

~~CONFIDENTIAL~~

Director
Federal Bureau of Investigation
U. S. Department of Justice
Washington 25, D. C.

Dear Sir:

Please refer to my letter of June 6, 1951.

It appears that the Federal Bureau of Investigation is in contact with a confidential source of information on Soviet aeronautical developments. I am informed that this source, whose identity is unknown to the NACA, is located in Western Europe.

The National Advisory Committee for Aeronautics is anxious to obtain all available information on the status of Soviet aeronautical research. In order that American plane manufacturers and the military services might be able to design and produce superior military planes, NACA must be able to supply the manufacturers and the military services with the data acquired from our research. The rate of improvements in military aeronautics is paced by the rate of accomplishments in aeronautical research.

As a matter of intelligence I am interested in, first, the status of Soviet research as compared with that in this country, and, secondly, with the specific results of Soviet aeronautical research.

I would appreciate it if you would advise me whether the informant on Soviet aeronautical developments would be available for an interview by representatives of NACA. The primary purpose for such an interview would be the acquisition of intelligence information. However, it may be that our representative could be of assistance on technical matters to your representative in a reinterview of the informant to clarify the allegations referred to in my letter.

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Director
Federal Bureau of Investigation -2- June 15, 1951

of June 6, 1951.

Several of the principal members of the NACA Staff, including myself, will be in England during the early part of next September. I hope that the necessary arrangements can be made for an interview not later than that time. If such an interview can be arranged, I would appreciate advice as to the location of the informant, the general extent of his knowledge on Soviet aeronautical research, and whether our representative would have to supply a competent translator.

Very truly yours,

NATIONAL ADVISORY COMMITTEE
FOR AERONAUTICS

J. W. Howley, for
Hugh L. Dryden
Director

~~CONFIDENTIAL~~

SECRET

Copy 1 of 8 copies

JEROME C. MUNSACKER, SC. D. CHA.
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MOFFETT FIELD, CALIF.

WRIGHT FLIGHT PROPULSION LABORATORY
CLEVELAND AIRPORT, CLEVELAND 11, OHIO

TELEPHONE: LIBERTY 5-6700

June 6, 1951

(M)

Director
Federal Bureau of Investigation
U. S. Department of Justice
Washington 25, D. C.

Dear Sir:

The attached documents and the following explanatory material and suggested questions are being submitted as a result of the conference between Special Agent Elmer F. Emrich and my Security Officer.

The nature of the allegations, the brevity and inaccuracies or lack of clarity have posed considerable obstacles to an evaluation of the allegations. A brief statement of the informant could be interpreted as relating to a vast quantity of technical data contained only in numerous reports, or could be interpreted as relating to any part of this body of data.

The informant's unqualified statements are too inclusive; for example, the statement that they possessed all Secret material from the NACA Laboratory at Langley Field. An effort to determine in advance all of the material to which the informant might conceivably be referring would only result in the wildest form of far-reaching guesswork, covering a tremendous body of technical material. This would be no mean task and of questionable value.

To reduce the magnitude of the problem to one capable of practical solution, the following approach has been used: explanatory material has been submitted for the benefit of, and to give the necessary background to, the interrogator; some samples of technical reports relating to the subjects mentioned in the allegations are attached; there are set forth suggested

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Director

Federal Bureau of Investigation

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June 6, 1951

questions, the answers to which will enable the NACA to determine more accurately the matters referred to in the allegations. It should be emphasized that the technical reports submitted are only a sampling of those which relate to the subjects mentioned in the allegations. It is hardly to be expected that answers can be obtained for all of the questions suggested; numerous questions are suggested because the answers to any of them will assist us in delineating the problem.

*NACA reports
to be
exhibited
to
CIA*

Some of the reports submitted are still "classified", and would be of value to a potential enemy. The current classification of each NACA report is indicated thereon. As you know, it is a well recognized principle that classified material originating in one agency will not be further disseminated by another, without the approval of the originating agency. Some of the attached reports were issued by one of the military services. I request that you obtain the permission of the appropriate military agency should you desire to exhibit this material to the informant. Some of the NACA reports might be of some value to an enemy. However, if there is reasonable anticipation that the exhibition of these reports will assist in the solution of this problem, it appears the risks are well worth taking.

As basic explanatory material, there are attached three copies of an unclassified brochure describing the organization and research facilities of the NACA. This might be of value as background material for the interrogator.

The remainder of this letter is organized into (a) a sentence or phrase from the allegations, followed by (b) pertinent explanatory material, and (c) suggested questions relating to the sentence or phrase from the allegation.

1. (a) Possessed all Secret material from NACA Laboratory at Langley Field. Material obtained by

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Director
Federal Bureau of Investigation

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June 6, 1951

someone in "Sonic Speed Laboratory".

(b) The Langley Aeronautical Laboratory (formerly Langley Memorial Aeronautical Laboratory) Langley Field, Virginia, was the first, and for many years the only, NACA research laboratory. The Ames Aeronautical Laboratory, Moffett Field, California, was opened in August 1940, and the Lewis Flight Propulsion Laboratory (formerly Aircraft Engine Research Laboratory), Cleveland, Ohio, was opened in May 1942. Since 1942 the majority of work relating to aircraft propulsion systems (such as jet engines) has been performed at the Lewis Laboratory.

Reports published by NACA are given relatively wide distribution to branches of the military services, aircraft manufacturers, etc., even when the reports are classified.

There is no "Sonic Speed Laboratory" in NACA. Research on subsonic, transonic, and supersonic problems are handled at all three Laboratories. Some wind-tunnels are known as transonic or supersonic tunnels. There is some indication that the term "Sonic Speed Laboratory" is used loosely by some persons to refer to any aeronautical research laboratory. There was a small Sound Laboratory at Langley Field which had relatively limited access to classified material. The research division of the Langley Laboratory most concerned with transonic and supersonic problems was the Compressibility Research Division. In addition the Pilotless Aircraft Research Division, the Flight Research Division, and the Physical Research Division were concerned to a lesser degree with these problems. The name of the Laboratory where the research was conducted is shown on each technical report published by NACA.

Red diagonal-striped cover sheets were not used, normally, by NACA, and no instance can be recalled where such cover sheets were used on reports at the

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Director

Federal Bureau of Investigation -4- June 6, 1951

Langley Laboratory.

(c) Three basic questions are immediately posed: Does the term "Secret" as used here refer to the classification assigned to the material, or is it used in the broader sense as meaning material, not available to the public, which may be classified as "Restricted", "Confidential", or "Secret"? Does "all Secret material" mean all such material issued by the Langley Laboratory, or does it also include such material issued by others and received by this Laboratory? What basis does the informant have for the opinion that all such material was possessed?

Did the informant see the material in the form in which it was originally received, and, if so, were there actual copies of reports, or were there photographs or abstracts of reports, letters, and similar documents? If actual reports or photographs thereof were not seen, did the informant see any charts or graphs, and, if so, in what form? Was the material being received continuously from time to time, or was it obtained at one time?

What indications are there that the material was obtained from NACA (as opposed to, say, an aircraft manufacturer receiving NACA reports)? What indications were there that the material was received from the Langley Laboratory (as opposed to the other two NACA Laboratories)? What indications were there that the material was received from some one in the "Sonic Speed Laboratory", and what is meant by this terminology? Does the informant possess any information which would indicate there is only one or more than one source (defectee) for this material? Does the informant have any indication that the source of the material was in a certain Division, or was associated principally with a certain wind-tunnel, or was concerned principally with certain types of problems?

What is the significance of the question, "Who

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Director

Federal Bureau of Investigation

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June 6, 1951

was in touch with the gas dynamics department at Langley Field?" The Fluid and Gas Dynamics Analysis Section of the Langley Laboratory was established February 23, 1944. In November 1946 the name was changed to the Gas Dynamics Section. Likewise, what is the significance of the questions relating to the Bell Aircraft Works (sic) and the aerodynamics laboratory of a Massachusetts University? Is the informant referring to the Massachusetts Institute of Technology? The Bell Aircraft Corporation is a large aircraft manufacturer, and many persons in NACA had contact with the corporation for one reason or another.

2. (a) Had complete set of blueprints and technical data on GE jet engine.

(b) It appears the informant could be referring to any one of three GE jet engines: the J-31, also known as the I-16; the J-33, also known as the I-40; or the J-35, also known as the TG-180. Four reports, each dealing with one or more of these engines, are attached. They are:

"Investigations of Jet-Propulsion Engines in the NACA Altitude Wind-Tunnel",

"Altitude-Wind-Tunnel Investigations of Thrust Augmentation of a Turbojet Engine. I-Performance with Tail-Pipe Burning",

"Final Report of Development of XP-59A and YP-59A Model Airplanes", and

"Thrust-Augmentation Tests of Type I-16 Jet-Propulsion Engine by Bleedoff and Water and Alcohol Injection".

(c) To which of these three engines is the informant referring? What type of technical data was available, as, for example, the amount of thrust, fuel consumption, "blow-out" altitude, acceleration, or combustion temperature? Was the technical data obtained from flight or

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(NACA)

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Director
Federal Bureau of Investigation -6- June 6, 1951

tunnel tests? Did the report or reports deal primarily with the performance of the complete engine or with tests on modifications for improvement of component parts, such as the compressor, turbine, burning chamber, etc?

Was a complete set of construction or shop blueprints available, or is the informant referring to line drawings showing, by scale, shape and location of principal component parts? Were the "blueprints" part of a report or a separate item?

Who prepared the report--NACA, GE, or Air Force? Was the report classified "Confidential" or "Secret"? If the report was prepared by NACA, were tests conducted at the Langley Laboratory or at the Aircraft Engine Research Laboratory at Cleveland, Ohio? Did the report deal only with the jet engine or with a plane using that engine?

3. (a) Used Secret NACA data on their work in estimating maximum curvature at subsonic speeds.

(b) The terminology used is not definitive. It appears the statement could refer to

(A) The curvature of airfoils or wing sections,

(B) Minimum radius of turn of an airplane.

An unclassified report "Aerodynamic Characteristics of 24 NACA 16-Series Airfoils at Mach Numbers between 0.3 and 0.8" is an example of (A). The material included in this report was made available at a Confidential conference at the Ames Aeronautical Laboratory in 1947.

Seven reports are submitted as possible examples of (B):

"The Locus of Possible Positions of a Heavy

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Director
Federal Bureau of Investigation -7- June 6, 1951

"Bomber in Space after a 12-Second Time Interval",

"Calculated and Measured Turning Performance of a Navy F2A-3 Airplane as Affected by the Use of Flaps",

"Effects of Compressibility on the Maximum Lift Characteristics and Spanwise Load Distribution of a 12-Foot-Span Fighter-Type Wing of NACA 230-Series Airfoil Sections",

"Effect of Mach and Reynolds Numbers on the Power-Off Maximum Lift Coefficient Obtainable on a P-39N-1 Airplane as Determined in Flight",

"Effect of Mach and Reynolds Numbers on the Maximum Lift Coefficient Obtainable in Gradual and Abrupt Stalls of a Pursuit Airplane Equipped with a Low-Drag Wing",

"Preliminary Investigation of the Effect of Compressibility on the Maximum Lift Coefficient",

"Wing Pressure-Distribution Measurements up to 0.85 Mach Number in Flight on a Jet Propelled Airplane".

(c) If the informant is referring to material in category (A), the following questions are suggested:

The data covered what series of airfoils? What classification did the report bear? Were the tests made at the Langley or Ames Laboratory?

If the informant is referring to material in category (B), did the reports refer to general studies on the maximum lift coefficient, or to the possible diversionary tactics capabilities of specific planes? Is the informant referring to data obtained as a result of wind-tunnel or flight tests?

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Director

Federal Bureau of Investigation -8- June 6, 1951

4. (a) Had details of American Gorgon and other rockets.

(b) There were four models of the Gorgon controlled missile. These models were the II A and III A rocket propelled air-to-air missiles, and the II B and II C missiles which were propelled by ram jet power plants generally similar to the German V-1 "Buzz bomb". Attached are three reports dealing with phases of the developmental work on these missiles. The reports are "Wind-Tunnel Tests of the Gorgon IIA and IIB Airframes. II - Power-Off Longitudinal and Lateral Stability and Control", "Design, Construction and Preliminary Flight Tests of a 14" RESOJET Power Plant for the GORGON II-C Controlled Missile", and "AN APN-58 Status and Progress". The latter report deals with the control mechanism for the II C missile. Previously transmitted was a report "Guided Missiles, Status, Development and Availability". It is to be noted that a copy of this latter report has been missing since approximately November 1944.

(c) What type of "details" of the Gorgon missile was available, such as the construction details of the guiding mechanism, power plant, or launching device; or test data, such as static thrust, flight tests or wind-tunnel tests of the power plant; or performance characteristics, such as speed, altitude, and range; or performance or test data on the control mechanism, such as the range, operating characteristics, stabilization or radio frequencies used; or geometry of the airframe or aerodynamic data thereon?

On what other types of rockets did informant possess details? By rockets, does informant mean a propulsion system not requiring air? If so, were the rockets test vehicles for the solution of aerodynamic problems, such as lift/drag, stability, etc., of, for example, various wing configurations; or were the rockets potential or developmental missiles? If the latter, were they long range or short range, guided or aimed, and, if guided, whether primarily by directional or homing devices? Were all of the following types of

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Director

Federal Bureau of Investigation -9- June 6, 1951

information available on each of the types of rockets--Construction (general description, engineer's line drawings or shop or construction blueprints)? Procurement rate, goals, cost? Power plant thrust, type of fuel, orifice, burning rate or time? Performance speed, range, pay load? Guiding mechanism type, range, and operation? Launching device?

5. (a) Had details of American Shooting Star.

(b) The "American Shooting Star" was the popular name for the Lockheed XP-80 or P80 airplane. Two reports, "High-Speed Wind-Tunnel Tests of a 1/3-Scale Model of the XP-80 Airplane" and "Final Report of Development, Procurement, Performance and Acceptance XP-80 Airplane" pertaining to this, are attached.

RESTRICTED
(NACA)
CONFIDENTIAL
(ARF)

While this plane was developed primarily as a military pursuit plane, the plane has been used by NACA as a vehicle for flight tests. The memorandum report "Wing Pressure-Distribution Measurements up to .85 Mach Number in Flight on a Jet Propelled Aircraft", previously mentioned under (3), is an example of reports in this category.

(c) What type of "details" was available, such as construction data, performance data, or procurement data? With what did the material primarily deal, such as the status of a developmental project, estimates of the effects of battle damage, aerodynamic tests of models or flight tests of the plane. Did the material relate, primarily, to aerodynamic tests concerned with one type of problem, such as stability, control, landing speed or spin characteristics, or to the overall performance of the plane? If the material or reports dealt with the use of the plane as a test vehicle, what was the purpose of the tests? What classification did the reports bear? Did the NACA, the Air Force, or Lockheed prepare the reports?

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Director

Federal Bureau of Investigation -10- June 6, 1951

6. (a) Had complete set blueprints and diagrams of aerodynamic tests of Bell X-1.

(b) The Bell X-1 is a flight research airplane built by the Bell Aircraft Corporation under contract with the Army Air Force. It was a cooperative project to produce a plane capable of equaling or exceeding the speed of sound, with NACA furnishing much of the design data. It is capable of making flights of very short duration, and is not a serviceable military plane. Developmental work began in 1944. Glide tests (no power) and wind-tunnel tests of models were made in 1946. Flight tests were made in 1947, and in October 1947 the plane flew at a speed exceeding the speed of sound. Tests have continued on the plane to this date, and there is a large quantity of data pertaining to aerodynamic tests.

Three reports dealing with wind-tunnel tests of scale models of the X-1 are attached. They are

"Wind-Tunnel Tests of a 1/4-Scale Model of the Bell XS-1 Transonic Airplane (Army Project MX-653). I - Longitudinal Stability and Control Characteristics",

CONFIDENTIAL
(NACA)

"Wind-Tunnel Tests of a 1/4-Scale Model of the Bell XS-1 Transonic Airplane (Army Project MX-653). II - Lateral and Directional Stability and Control", and

CONFIDENTIAL
(NACA)

"Force and Longitudinal Control Characteristics of a 1/16-Scale Model of the Bell XS-1 Transonic Research Airplane at High Mach Numbers".

CONFIDENTIAL
(NACA)

(c) Were the "blueprints" actual construction or shop blueprints or copies thereof, or were they engineers' line drawings showing, to scale, the size, shape, and location of principal components? Were the "blueprints" part of a report or separate documents?

Data was available on what type of aerodynamic tests at what speed or Mach number? Was the data on

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Director
Federal Bureau of Investigation -11- June 6, 1951

wind-tunnel tests of models, or flight tests of the airplane? (The Mach number or speed at which the tests were performed is particularly valuable in determining the status of development, and thus the date of the report.)

Did the data relate principally to the complete plane or to component parts, such as power plant, changes in controls to improve stability, etc.?

Further effort is being made to identify the material referred to by the informant. Further elaboration on the allegations made by the informant will be of material assistance to NACA in evaluating the allegations and identifying the material.

Very truly yours,

NATIONAL ADVISORY COMMITTEE
FOR AERONAUTICS

Hugh L. Dryden

Hugh L. Dryden
Director

Enclosures

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